# **ONKYO**®

# 7.1ch Home Theater System

# HT-S7300

AV Receiver (HT-R680) Speaker Package (HTP-780) Universal Port Option Dock for iPod® (UP-A1)

# HT-S6300

AV Receiver (HT-R680) Speaker Package (HTP-680) Universal Port Option Dock for iPod® (UP-A1)

# **Instruction Manual**

Thank you for purchasing an Onkyo 7.1ch Home Theater System. Please read this manual thoroughly before making connections and plugging in the unit. Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your new 7.1ch Home Theater System.

Please retain this manual for future reference.

# **Contents**

Introduction2
Connections14
Turning On & Basic Operations24
Advanced Operations 20

Controlling iPod & Other
Components56

Others......64









### **WARNING:**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

### **CAUTION:**

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.









The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

### **Important Safety Instructions**

- 1. Read these instructions.
- **2.** Keep these instructions.
- 3. Heed all warnings.
- **4.** Follow all instructions.
- 5. Do not use this apparatus near water.
- **6.** Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- **8.** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- **10.** Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



**13.** Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

**15.** Damage Requiring Service

Unplug the apparatus from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- A. When the power-supply cord or plug is damaged,
- **B.** If liquid has been spilled, or objects have fallen into the apparatus,
- C. If the apparatus has been exposed to rain or water,
- **D.** If the apparatus does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the apparatus to its normal operation,
- E. If the apparatus has been dropped or damaged in any way, and
- **F.** When the apparatus exhibits a distinct change in performance this indicates a need for service.
- **16.** Object and Liquid Entry

Never push objects of any kind into the apparatus through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.

The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus.

Don't put candles or other burning objects on top of this unit.

17. Batteries

Always consider the environmental issues and follow local regulations when disposing of batteries.

**18.** If you install the apparatus in a built-in installation, such as a bookcase or rack, ensure that there is adequate ventilation.

Leave 20 cm (8") of free space at the top and sides and 10 cm (4") at the rear. The rear edge of the shelf or board above the apparatus shall be set 10 cm (4") away from the rear panel or wall, creating a flue-like gap for warm air to escape.

### **Precautions**

- 1. **Recording Copyright**—Unless it's for personal use only, recording copyrighted material is illegal without the permission of the copyright holder.
- 2. AC Fuse—The AC fuse inside the unit is not user-serviceable. If you cannot turn on the unit, contact your Onkyo dealer.
- 3. Care—Occasionally you should dust the unit all over with a soft cloth. For stubborn stains, use a soft cloth dampened with a weak solution of mild detergent and water. Dry the unit immediately afterwards with a clean cloth. Don't use abrasive cloths, thinners, alcohol, or other chemical solvents, because they may damage the finish or remove the panel lettering.

### 4. Power

### WARNING

BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.

AC outlet voltages vary from country to country. Make sure that the voltage in your area meets the voltage requirements printed on the unit's rear panel (e.g., AC 230 V, 50 Hz or AC 120 V, 60 Hz).

The power cord plug is used to disconnect this unit from the AC power source. Make sure that the plug is readily operable (easily accessible) at all times.

Pressing **ON/STANDBY** to select Standby mode does not fully shutdown the unit. If you do not intend to use the unit for an extended period, remove the power cord from the AC outlet.

### 5. Preventing Hearing Loss Caution

Excessive sound pressure from earphones and headphones can cause hearing loss.

### 6. Batteries and Heat Exposure Warning

Batteries (battery pack or batteries installed) shall not be exposed to excessive heat as sunshine, fire or the

7. Never Touch this Unit with Wet Hands—Never handle this unit or its power cord while your hands are wet or damp. If water or any other liquid gets inside this unit, have it checked by your Onkyo dealer.

### 8. Handling Notes

- If you need to transport this unit, use the original packaging to pack it how it was when you originally bought it.
- Do not leave rubber or plastic items on this unit for a long time, because they may leave marks on the
- This unit's top and rear panels may get warm after prolonged use. This is normal.
- If you do not use this unit for a long time, it may not work properly the next time you turn it on, so be sure to use it occasionally.

### For U.S. models

### FCC Information for User **CAUTION:**

The user changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and
- · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### **For Canadian Models**

NOTE: THIS CLASS B DIGITAL APPARATUS COM-PLIES WITH CANADIAN ICES-003.

For models having a power cord with a polarized plug: CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

### Modèle pour les Canadien

REMAROUE: CET APPAREIL NUMÉRIOUE DE LA CLASSE B EST CONFORME À LA NORME NMB-003 DU CANADA.

Sur les modèles dont la fiche est polarisée:

ATTENTION: POUR ÉVITER LES CHOCS ÉLEC-TRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPON-DANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

# **Speaker Precautions**

### **Placement**

- The subwoofer cabinet is made out of wood and is therefore sensitive to extreme temperatures and humidity, do not put it in locations subject to direct sunlight or in humid places, such as near an air conditioner, humidifier, bathroom, or kitchen.
- Do not put water or other liquids close to the speakers. If liquid is spilled over the speakers, the drive units may be damaged.
- Speakers should only be placed on sturdy, flat surfaces that are free from vibration. Putting them on uneven or unstable surfaces, where they may fall and cause damage, will affect the sound quality.
- Subwoofer is designed to be used in the upright vertical position only. Do not use it in the horizontal or tilted position.
- If the unit is used near a turntable, CD player or Blu-ray Disc/DVD player, howling or slipping of sound may occur. To prevent this, move the unit away from the turntable, CD player or Blu-ray Disc/DVD player, otherwise lower the unit's output level.

### Using Close to a TV or Computer

TVs and computer monitors are magnetically sensitive devices and as such are likely to suffer discoloration or picture distortion when conventional speakers are placed nearby. In such situations, try moving the speakers away from your TV or monitor. If discoloration should occur, turn off your TV or monitor, wait 15 to 30 minutes, and then turn it back on again. This normally activates the degaussing function, which neutralizes the magnetic field, thereby removing any discoloration effects. Note that discoloration can also be caused by a magnet or demagnetizing tool that's too close to your TV or monitor.

### Input Signal Warning

The speakers can handle the specified input power when used for normal music reproduction. If any of the following signals are fed to them, even if the input power is within the specified rating, excessive current may flow in the speaker coils, causing burning or wire breakage:

- 1. Interstation noise from an untuned FM radio.
- 2. Sound from fast-forwarding a cassette tape.
- 3. High-pitched sounds generated by an oscillator, electronic musical instrument, and so on.
- 4. Amplifier oscillation.
- 5. Special test tones from audio test CDs and so on.
- 6. Thumps and clicks caused by connecting or disconnecting audio cables (always turn off your amplifier before connecting or disconnecting cables).
- 7. Microphone feedback.

# **Package Contents**

Make sure you have the following items:

\* In catalogs and on packaging, the letter at the end of the product name indicates the color. Specifications and operations are the same regardless of color.

### HT-S6300

### **AV Receiver HT-R680**

HT-R680 (→ 8)

Remote controller and two batteries (AA/R6) (→ 5)

Indoor FM antenna (→ 22)

AM loop antenna (→ 22)

Speaker setup microphone (→ 28)

### Speaker Package HTP-680

Front speakers (SKF-680 L/R) (→ 10)

Center speaker (SKC-680) (→ 10)

Surround speakers (SKR-680 L/R) (→ 10)

Surround back speakers (SKB-680 L/R) (→ 10)

Subwoofer (SKW-770) (→ 10)

Speaker cables for front speakers 11 ft. (3.5 m)

(White and Red) (→ 17)

Speaker cable for center speaker 10 ft. (3.0 m) (Green) ( $\rightarrow$  17)

Speaker cables for surround speakers 26 ft. (8.0 m) (Blue and Gray) (→ 17)

Speaker cables for surround back speakers 26 ft. (8.0 m) (Brown and Tan) ( $\rightarrow$  17)

RCA cable for subwoofer connection 10 ft. (3.0 m) ( $\rightarrow$  17)

28 rubber stoppers (→ 14, 15)

4 floor pads for the subwoofer (→ 15)

# Universal Port Option Dock for iPod® (UP-A1)

UP-A1 (→ 56)

### HT-S7300

### **AV Receiver HT-R680**

HT-R680 (→ 8)

Remote controller and two batteries (AA/R6) (→ 5)

Indoor FM antenna (→ 22)

AM loop antenna (→ 22)

Speaker setup microphone (→ 28)

### **Speaker Package HTP-780**

Front speakers (SKF-780 L/R) (→ 10)	
Center speaker (SKC-780) (→ 10)	
Surround speakers (SKR-780 L/R) (→ 10)	
Surround back speakers (SKB-780 L/R) (→ 10)	
Subwoofer (SKW-780) (→ 10)	
Speaker cables for front speakers 11 ft. (3.5 m) (White and Red) ( $\rightarrow$ 17)	
Speaker cable for center speaker 10 ft. (3.0 m) (Green) ( $\rightarrow$ 17)	
Speaker cables for surround speakers 26 ft. (8.0 (Blue and Gray) ( $\rightarrow$ 17)	m)
Speaker cables for surround back speakers 26 f (8.0 m) (Brown and Tan) ( $\rightarrow$ 17)	t.
RCA cable for subwoofer connection 10 ft. (3.0 i ( $\Rightarrow$ 17)	n)
2 speaker bases and 8 screws (→ 14)	
4 cork stoppers for center speaker (→ 15)	
4 floor pads for the subwoofer (→ 15)	

# Universal Port Option Dock for iPod® (UP-A1)

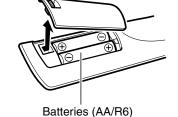
UP-A1 (→ 56)

### Using the Remote Controller

### **Installing the Batteries**

### Note

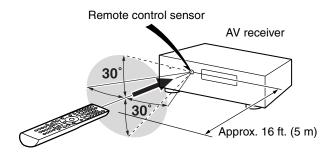
- If the remote controller doesn't work reliably, try replacing the batteries.
- Don't mix new and old batteries or different types of batteries.
- If you intend not to use the remote controller for



- a long time, remove the batteries to prevent damage from leakage or corrosion.
- Remove expired batteries as soon as possible to prevent damage from leakage or corrosion.

### Aiming the Remote Controller

To use the remote controller, point it at the AV receiver's remote control sensor, as shown below.



### **Contents**

### Introduction

mportant Safety Instructions	2
Precautions	
Speaker Precautions	
Package Contents	4
Features	
Front & Rear Panels	8
Speaker Package	10
Remote Controller	
About Home Theater	13

### **Connections**

Connecting the AV Receiver ......14

### **Turning On & Basic Operations**

Turning On/Off the AV Receiver	24
Basic Operations	
Listening to the Radio	
Recording	
Using the Listening Modes	

### **Advanced Operations**

Advanced	Setup	38
Zone 2		53

### **Controlling iPod & Other Components**

Controlling	iPod	56
Controlling	Other Components	60

### **Others**

Troubleshooting	64
Specifications	
About HDMI	
Using an RIHD-compatible TV, Player, or Recorder .	73
Video Resolution Chart	

To reset the AV receiver to its factory defaults, turn it on and, while holding down VCR/DVR, press ON/STANDBY (→ 64).

### **Features**

### **AV Receiver HT-R680**

- 130 Watts/Channel @ 6 ohms
- WRAT-Wide Range Amplifier Technology (5 Hz to 100 kHz bandwidth)
- Optimum Gain Volume Circuitry
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- HDMI (Ver.1.4 with Audio Return Channel, 3D), Deep-Color, x.v.Color\*, Lip Sync, DTS\*1-HD Master Audio, DTS-HD High Resolution Audio, Dolby TrueHD\*2, Dolby Digital Plus, DSD and Multi-CH PCM
- Dolby Pro Logic IIz\*2 (with "Front High" Direction Mode)
- Non-Scaling Configuration
- A-Form Listening Mode Memory
- Direct Mode
- Music Optimizer\*3 for Compressed Digital Music files
- 192 kHz/24-bit D/A Converters
- Powerful and Highly Accurate 32-bit Processing DSP
- Jitter Cleaning Circuit Technology
- 4 HDMI\*4 Inputs and 1 Output
- Onkyo RIFID for System Control
- 4 Digital Inputs (2 Optical/2 Coaxial)
- Component Video Switching (2 Inputs/1 Output)
- Front "Line in" Input for Portable audio player
- Universal Port for the Dock for iPod\*/HD Radio<sup>TM\*5</sup> tuner module
- Banana Plug-Compatible Speaker Posts
- Powered Zone 2
- 40 FM/AM Presets
- Audyssey 2EQ®\*6 to Correct Room Acoustic Problems
- Audyssey Dynamic EQ®\*6 for Loudness Correction
- Audyssey Dynamic Volume®\*6 to Maintain Optimal Listening Level and Dynamic Range
- Crossover Adjustment (40/50/60/70/80/90/100/120/150/200 Hz)
- A/V Sync Control Function (up to 200 ms)
- On-Screen Display via HDMI
- Preprogrammed RI-Compatible Remote

### \*1 **dts-н**р Master Audio

Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,212,872; 7,333,929; 7,392,195; 7,272,567 & other U.S. and worldwide patents issued & pending. DTS and the Symbol are registered trademarks, & DTS-HD, DTS-HD Master Audio, and the DTS logos are trademarks of DTS, Inc. Product includes software.

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# <sup>2</sup> DOLBY

TRUE:

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

\*3 Music Optimizer™ is a trademark of Onkyo Corporation.

### \*4 HDMI\*

"HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries."

# \*5 H) Radio

HD Radio  $^{\text{TM}}$  and the HD Radio Ready logo are proprietary trademarks of iBiquity Digital Corporation.

To receive HD Radio broadcasts, you must install an Onkyo UP-HT1 HD Radio tuner module (sold separately).

\*6 AUDYSSEY

2EG

Manufactured under license from Audyssey Laboratories<sup>TM</sup>. U.S. and foreign patents pending. Audyssey 2EQ<sup>®</sup>, Audyssey Dynamic Volume<sup>®</sup> and Audyssey Dynamic EQ<sup>®</sup> are registered trademarks and trademarks of Audyssey Laboratories.





- iPod is a trademark of Apple Inc., registered in the U.S. and other countries.
- \* iPhone is a trademark of Apple Inc.
- \* "Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.

"Works with iPhone" means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

"x.v.Color" is a trademark of Sony Corporation.

### **Speaker Package HTP-680**

### SKF-680 L/R 2-Way Front Speakers

- 4" (10 cm) Cone woofer
- 1" (2.5 cm) Balanced dome tweeter
- Max. input power: 130 W
- · Gloss Finished
- 6-ohm impedance
- Color-coded speaker terminals and speaker cable

### SKC-680 2-Way Center Speaker

- 4" (10 cm) Cone woofer
- 1" (2.5 cm) Balanced dome tweeter
- Max. input power: 130 W
- Gloss Finished
- 6-ohm impedance
- Color-coded speaker terminals and speaker cable

### SKR-680 L/R Full-Range Surround Speakers

### SKB-680 L/R Full-Range Surround Back Speakers

- 3-1/4" (8 cm) Full-Range Speaker
- Max. input power: 130 W
- Gloss Finished
- 6-ohm impedance
- Color-coded speaker terminals and speaker cable

### SKW-770 Bass Reflex Powered Subwoofer

- 10" (25 cm) Cone
- Output Level Control
- Max. power: 290 W (Dynamic power)

### **Speaker Package HTP-780**

### SKF-780 L/R 2-Way Front Speakers

- 3-1/4" (8 cm) Cone woofer
- 1" (2.5 cm) Balanced dome tweeter
- Max. input power: 130 W
- 6-ohm impedance
- Color-coded speaker terminals and speaker cable

### SKC-780 2-Way Center Speaker

- 3-1/4" (8 cm) Cone woofer
- 1" (2.5 cm) Balanced dome tweeter
- Max. input power: 130 W
- 6-ohm impedance
- Color-coded speaker terminals and speaker cable

### SKR-780 L/R Full-Range Surround Speakers SKB-780 L/R Full-Range Surround Back Speakers

- 3-1/4" (8 cm) Cone
- Max. input power: 130 W
- 6-ohm impedance
- Color-coded speaker terminals and speaker cable

### SKW-780 Bass Reflex Powered Subwoofer

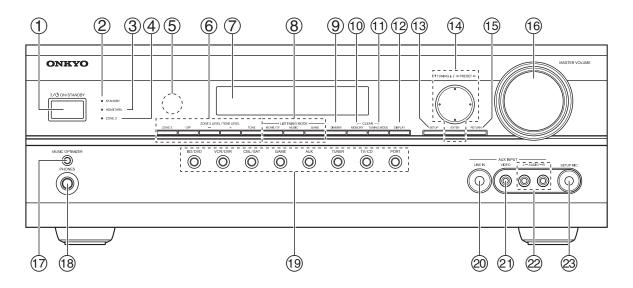
- 10" (25 cm) Cone
- Output Level Control
- Max. power: 290 W (Dynamic power)

# Universal Port Option Dock for iPod® (UP-A1)

Easily links iPod/iPhone models with Onkyo A/V Systems.

## **Front & Rear Panels**

### Front Panel

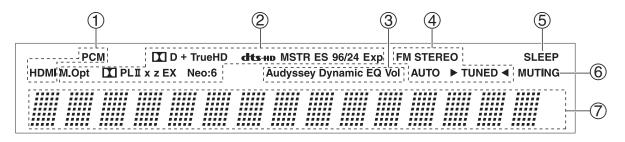


The actual front panel has various logos printed on it. They are not shown here for clarity. The page numbers in parentheses show where you can find the main explanation for each item.

- ① ON/STANDBY button (→ 24)
- ② STANDBY indicator (→ 24)
- ③ HDMI THRU indicator (→ 49)
- **④ ZONE 2** indicator (→ 54)
- **⑤** Remote control sensor (→ 5)
- **⑥** ZONE 2, OFF, ZONE 2 LEVEL/TONE LEVEL and TONE buttons (→ 50, 54 to 55)
- ⑦ Display (→ 9)
- **9 DIMMER button** (→ **26**)
- **10** MEMORY button (→ 31)
- 11 TUNING MODE button  $(\rightarrow 30)$
- **12 DISPLAY** button (→ **25**)

- $\bigcirc$  SETUP button ( $\rightarrow$  38)
- **①** TUNING, PRESET (→ 30 to 31), arrow and ENTER buttons
- **15** RETURN button
- **16** MASTER VOLUME control (→ 25)
- **⑦ MUSIC OPTIMIZER button (→ 51)**
- **(8)** PHONES jack (→ 27)
- ⑤ Input selector buttons (BD/DVD, VCR/DVR, CBL/SAT, GAME, AUX, TUNER, TV/CD and PORT) (→ 25)
- **②** AUX INPUT LINE IN jack (→ 20)
- ② AUX INPUT VIDEO jack (→ 20)
- **②** AUX INPUT AUDIO jacks (→ 20)
- SETUP MIC jack (→ 28)

### Display

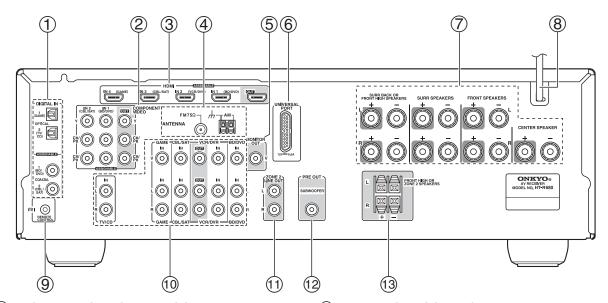


For detailed information, see the pages in parentheses.

- **1** Audio input indicators
- ② Listening mode and format indicators (→ 33, 51)
- ③ Audyssey indicators (→ 28, 44)
- **④** Tuning indicators (→ **30**)

- ⑤ SLEEP indicator (→ 26)
- **⑥** MUTING indicator (→ 26)
- ⑦ Message area

### Rear Panel



- 1 DIGITAL IN OPTICAL and COAXIAL jacks
- **② COMPONENT VIDEO IN and OUT jacks**
- **③ HDMI IN and OUT jacks**
- **4** FM ANTENNA jack and AM ANTENNA terminal
- **5** MONITOR OUT V jack
- **6** UNIVERSAL PORT jack
- SPEAKERS terminals (CENTER, FRONT, SURR and SURR BACK OR FRONT HIGH)
- **8** Power cord

- **9 RI REMOTE CONTROL jack**
- ① Composite video and analog audio jacks
  (BD/DVD IN, VCR/DVR IN and OUT, CBL/SAT IN,
  GAME IN and TV/CD IN)
- 1 ZONE 2 LINE OUT jacks
- **12 SUBWOOFER PRE OUT jack**
- (3) FRONT HIGH OR ZONE 2 SPEAKERS terminals

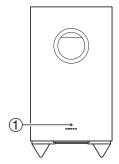
See "Connecting the AV Receiver" for connection information ( $\rightarrow$  16 to 23).

# **Speaker Package**

### Subwoofer (SKW-770/780)

For detailed information, see the pages in parentheses.

### ■ Front



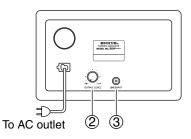
### ① Standby/On indicator

Red: Subwoofer in standby mode

Blue: Subwoofer on

With the Auto Standby function, the SKW-770/780 automatically turns on when an input signal is detected in Standby mode. When there's no input signal for a while, the SKW-770/780 automatically enters Standby mode.

### ■ Rear



### ② OUTPUT LEVEL control (→ 25)

This control is used to adjust the volume of the subwoofer.

③ LINE INPUT (→ 17)

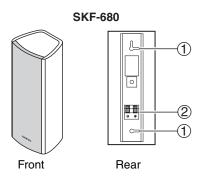
This RCA input should be connected to the **SUB-WOOFER PRE OUT** on the AV receiver with supplied RCA cable.

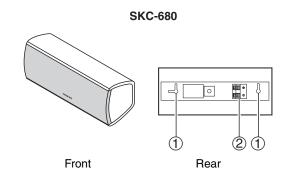
### Note

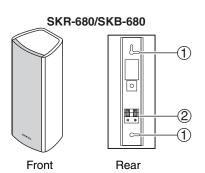
• The Auto Standby function turns the subwoofer on when the input signal exceeds a certain level. If the Auto Standby function does not work reliably, try slightly increasing or decreasing the subwoofer output level on the AV receiver (>> 42).

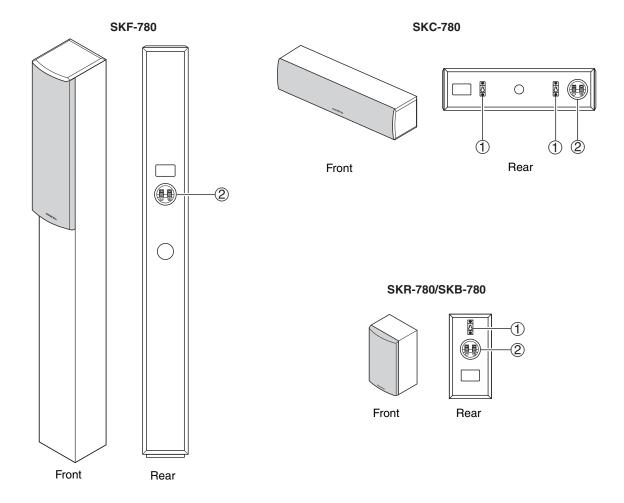
### Front, Center, Surround and Surround Back Speakers

### ■ HTP-680 (SKF-680, SKC-680, SKR-680, SKB-680)









### **①** Keyhole slots

These keyhole slots can be used to wall-mount the speaker. See "Wall Mounting" for mounting instructions ( $\rightarrow$  14).

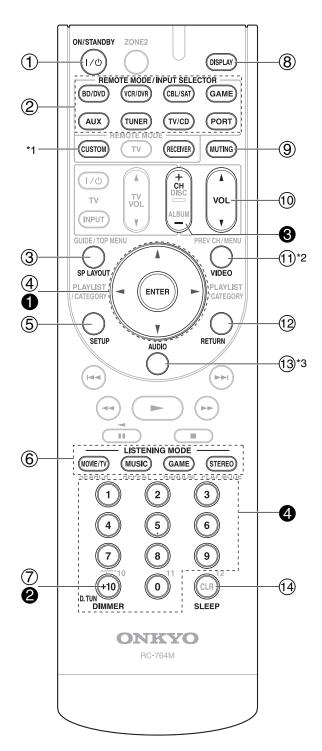
### **②** Speaker terminals

These push terminals are for connecting the speaker to the HT-R680 with the supplied speaker cables. The supplied speaker cables are color-coded for easy identification. Simply connect each cable to the same-colored positive speaker terminal.

### Caution

• The front grilles are not designed to be removed so do not attempt to remove them forcibly, as this will damage them.

### Controlling the AV Receiver



\*1 To control component, you must first enter remote control

See "Entering Remote Control Codes" for more details  $(\to 61).$ 

- \*2 This button acts as a shortcut for the Video menu (→ 26).
- \*3 This button acts as a shortcut for the Audio menu (→ 26).

To control the AV receiver, press RECEIVER to select Receiver mode.

You can also use the remote controller to control Onkyo Blu-ray Disc/DVD player, CD player and other components.

See "Entering Remote Control Codes" for more details ( $\rightarrow$  61).

For detailed information, see the pages in parentheses.

- ① ON/STANDBY button (→ 24)
- 2 REMOTE MODE/INPUT SELECTOR buttons (BD/DVD, VCR/DVR, CBL/SAT, GAME, AUX, TUNER, TV/CD and PORT)  $(\rightarrow 25)$
- ③ SP LAYOUT button (→ 26)
- **④** Arrow **▲/▼/◄/▶** and **ENTER** buttons
- **⑤ SETUP** button ( $\rightarrow$  38)
- **⑥ LISTENING MODE buttons (MOVIE/TV, MUSIC,** GAME and STEREO) (→ 33)
- $\bigcirc$  DIMMER button ( $\rightarrow$  26)
- 8 DISPLAY button ( $\rightarrow$  25)
- **9** MUTING button (→ 26)
- **10** VOL **△/** button (→ 25)
- **11** VIDEO button (→ 26)
- (12) RETURN button
- **13** AUDIO button (→ 26)
- **14** SLEEP button (→ 26)

### ■ Controlling the tuner

To control the AV receiver's tuner, press **TUNER** (or RECEIVER).

You can select AM or FM by pressing **TUNER** repeatedly.

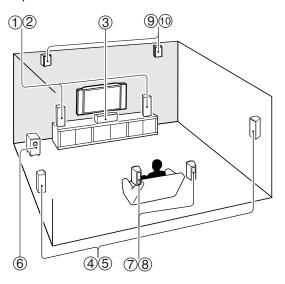
- **1** Arrow  $\blacktriangle/\blacktriangledown$  buttons (→ 30)
- **2** D.TUN button  $(\rightarrow 30)$
- **4** Number buttons (→ **30**)

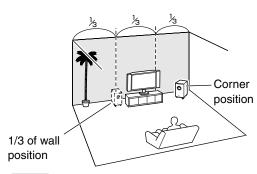
# **About Home Theater**

### **Enjoying Home Theater**

Thanks to the AV receiver's superb capabilities, you can enjoy surround sound with a real sense of movement in your own home—just like being in a movie theater or concert hall. With Blu-ray Discs or DVDs, you can enjoy DTS and Dolby Digital. With analog or digital TV, you can enjoy Dolby Pro Logic IIx, DTS Neo:6, or Onkyo's original DSP listening modes.

Speaker illustrations are based on HTP-680.





### Tip

 To find the best position for your subwoofer, while playing a movie or some music with good bass, experiment by placing your subwoofer at various positions within the room, and choose the one that provides the most satisfying results.

### ① ② Front speakers (SKF-680/780)

These output the overall sound. Their role in a home theater is to provide a solid anchor for the sound image. They should be positioned facing the listener at about ear level, and equidistant from the TV. Angle them inward so as to create a triangle, with the listener at the apex.

### 3 Center speaker (SKC-680/780)

This speaker enhances the front speakers, making sound movements distinct and providing a full sound image. In movies it's used mainly for dialog. Position it close to your TV facing forward at about ear level, or at the same height as the front speakers.

### 4 5 Surround speakers (SKR-680/780)

These speakers are used for precise sound positioning and to add realistic ambience. Position them at the sides of the listener, or slightly behind, about 2 to 3 feet (60 to 100 cm) above ear level. Ideally they should be equidistant from the listener.

### 6 Subwoofer (SKW-770/780)

The subwoofer handles the bass sounds of the LFE (Low-Frequency Effects) channel. The volume and quality of the bass output from your subwoofer will depend on its position, the shape of your listening room, and your listening position. In general, a good bass sound can be obtained by installing the subwoofer in a front corner, or at one-third the width of the wall, as shown.

### 7 8 Surround back speakers (SKB-680/780)

These speakers are necessary to enjoy Dolby Digital EX, DTS-ES Matrix, DTS-ES Discrete, etc. They enhance the realism of surround sound and improve sound localization behind the listener. Position them behind the listener about 2 to 3 feet (60 to 100 cm) above ear level.

### 9 10 Front high speakers (Optional)

These speakers are necessary to enjoy Dolby Pro Logic IIz Height. They significantly enhance the spatial experience. Position them at least 3.3 feet (100 cm) above the front speakers (preferably as high as possible) and at an angle slightly wider than the front speakers.

# **Connecting the AV Receiver**

### Attaching the Speaker Bases

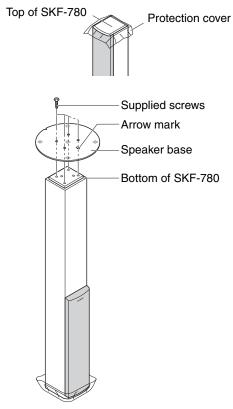
### ■ SKF-780

Before you connect the speakers, attach the supplied speaker base to each SKF-780.

- 1. Turn the speaker upside down with the protection cover attached.
- Align the speaker base while the arrow mark û is headed in the same direction as the speaker's face.
   Be careful not to tip over the speaker.
- Align the screw holes on the speaker base with those on the bottom of each speaker, and affix the speaker base using the supplied screws. Recommended torque is 10 kgf·cm (9 lbf·in).

Be careful not to tip over the speaker.

- 4. Turn the speaker right side up.
- 5. Remove the protection cover.



### **SAFETY PRECAUTIONS:**

- Attach the speaker bases in a manner that will not allow the speakers to tip over.
- Be sure to tighten the screws when you attach the speaker bases.
- Attach the speaker bases on a flat, level, and stable floor.
- After you attach the speaker bases, make sure that the speakers stand upright and are stable.

### Wall Mounting

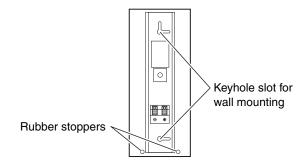
The speakers can easily be wall mounted by using the keyhole slots.

# Front, Surround and Surround Back Speakers

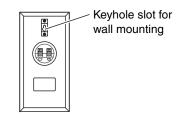
To mount the front, surround and surround back speakers vertically, use the keyhole slot shown to hang each speaker on a screw that's securely screwed into the wall.

### ■ SKF-680, SKR-680, SKB-680

To prevent the speaker from vibrating against the wall, attach two of the supplied rubber stoppers to the rear of each speaker.



### ■ SKR-780,SKB-780

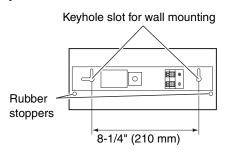


### **Center Speaker**

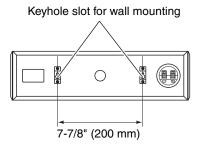
To mount the center speaker horizontally, use the two keyhole slots shown to hang each speaker on two screws that are securely screwed into the wall.

### ■ SKC-680

To prevent the speaker from vibrating against the wall, attach two of the supplied rubber stoppers to the rear of each speaker.



### ■ SKC-780

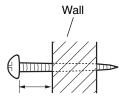


### Caution

- A mounting screw's ability to support a speaker depends on how well it's anchored to the wall. If you have hollow walls, screw each mounting screw into a stud. If there are no studs, or the walls are solid, use suitable wall anchors.
- Use screws with a head diameter of 5/16" (8 mm) or less and a shank diameter of 1/8" (4 mm) or less. With hollow walls, use a cable/pipe detector to check for any power cables or water pipes before making any holes.
- (HTP-680) Leave a gap of between 5/32" (4 mm) and 5/16" (8 mm) between the wall and the base of the screw head, as shown.

(HTP-780) Leave a gap of between 3/16" (5 mm) and 7/16" (10 mm) between the wall and the base of the screw head, as shown.

(We recommend that you consult a home installation professional.)



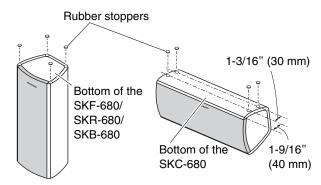
(HTP-680) 5/32" to 5/16"(4 mm to 8 mm) (HTP-780) 3/16" to 7/16"(5 mm to 10 mm)

# Using the Stoppers for a More Stable Platform

We recommend using the provided stoppers to achieve the best possible sound from your speakers. The stoppers prevent the speakers from moving, providing a more stable platform.

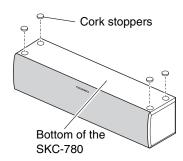
### ■ SKF-680, SKR-680, SKB-680, SKC-680

Use rubber stoppers for the speakers.



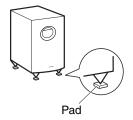
### **■ SKC-780**

Use cork stoppers for the center speaker.



### Using the Floor Pads for Subwoofer

If the subwoofer is placed on a hard floor (wood, vinyl, tile, etc.) and playback is very loud, the subwoofer's feet may damage the flooring. To prevent this, place the supplied pads underneath the subwoofer's feet. The pads also provide a stable base for the subwoofer.



### Connecting Your Speakers

### **Speaker Configuration**

The following table indicates the channels you should use depending on the number of speakers that you have. For 7.1-channel surround-sound playback, you need 7 speakers and a powered subwoofer.

Number of speakers	2	3	4	5	6	7	7	8	9
Front speakers	~	~	~	~	~	~	~	~	~
Center speaker		~		1	~	1	~	1	~
Surround speakers			~	~	~	~	~	~	~
Surround back speaker*1*2					~			~	
Surround back speakers*2						~			~
Front high speakers*2*3							~	~	~

- \*1 If you're using only one surround back speaker, connect it to the SURR BACK OR FRONT HIGH L terminals.
- \*2 Front high and surround back speakers cannot be used at the same time.
- \*3 When you connect the front high left and right speakers, prepare for it separately, or use the surround back left and right speakers.

No matter how many speakers you use, a powered subwoofer is recommended for a really powerful and solid bass.

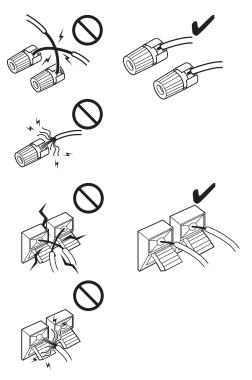
To get the best from your surround sound system, you need to set the speaker settings. You can do this automatically  $(\Rightarrow 28)$  or manually  $(\Rightarrow 40)$ .

### **Speaker Connection Precautions**

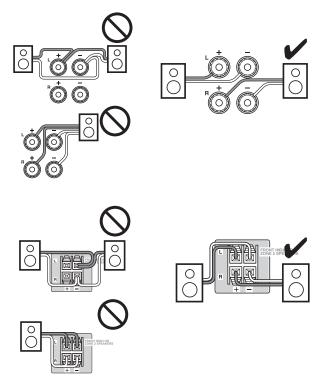
Read the following before connecting your speakers:

- You can connect speakers with an impedance of between 6 and 16 ohms. If you use speakers with a lower impedance, and use the amplifier at high volume levels for a long period of time, the built-in amp protection circuit may be activated.
- Disconnect the power cord from the wall outlet before making any connections.
- Pay close attention to speaker wiring polarity. In other words, connect positive (+) terminals only to positive (+) terminals, and negative (–) terminals only to negative (–) terminals. If you get them the wrong way around, the sound will be out of phase and will sound unnatural.
- Unnecessarily long, or very thin speaker cables may affect the sound quality and should be avoided.
- Be careful not to short the positive and negative wires. Doing so may damage the AV receiver.

Make sure the metal core of the wire does not have contact with the AV receiver's rear panel. Doing so may damage the AV receiver.



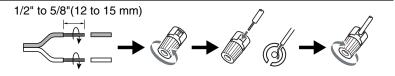
- Don't connect more than one cable to each speaker terminal. Doing so may damage the AV receiver.
- Don't connect one speaker to several terminals.



### **Connecting the Speaker Cables**

### Screw-type speaker terminals

Strip 1/2" to 5/8" (12 to 15 mm) of insulation from the ends of the speaker cables, and twist the bare wires tightly, as shown. (Supplied speaker cables are already stripped.)

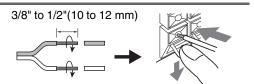


### **Using Banana Plugs**

- If you are using banana plugs, tighten the speaker terminal before inserting the banana plug.
- Do not insert the speaker code directly into the center hole of the speaker terminal.

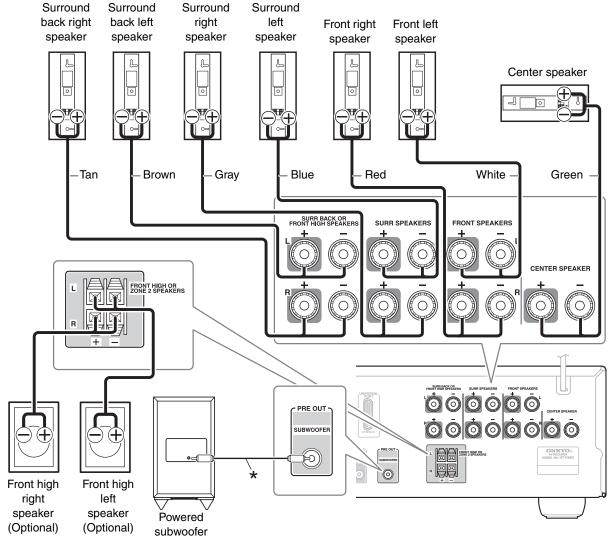
### **Push-type speaker terminals**

Strip 3/8" to 1/2" (10 to 12 mm) of insulation from the ends of the speaker cables, and twist the bare wires tightly, as shown. (Supplied speaker cables are already stripped.)



The following illustration shows which speaker should be connected to each pair of terminals. If you're using only one surround back speaker, connect it to the **SURR BACK OR FRONT HIGH L** terminals.

Speaker illustrations are based on HTP-680.



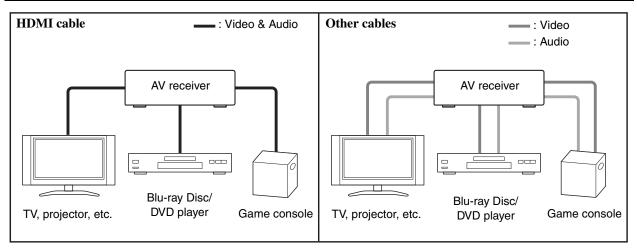
\* Using the supplied RCA cable, connect the subwoofer's LINE INPUT jack to your AV receiver's SUBWOOFER PRE OUT jack.

### Note

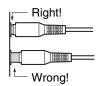
• The front high speakers can also be connected to the **SURR BACK OR FRONT HIGH SPEAKERS** terminals. When doing so, set "Surr Back/Front High" in Speaker Setup to "Front High" (→ 40).

### **About AV Connections**

### Connected image with AV components



- Before making any AV connections, read the manuals supplied with your AV components.
- Don't connect the power cord until you've completed and double-checked all AV connections.
- Push plugs in all the way to make good connections (loose connections can cause noise or malfunctions).
- To prevent interference, keep audio and video cables away from power cords and speaker cables.



### **AV Cables and Jacks**

Signal	Cable		Jack	Description
Video and Audio	HDMI		номі	HDMI connections can carry digital video and audio.
Video	Component video	PB/CB PR/CR	y	Component video separates the luminance (Y) and color difference signals (PB/CB, PR/CR), providing the best picture quality (some TV manufacturers label their component video sockets slightly differently).
	Composite video		v O Yellow	Composite video is commonly used on TVs, VCRs, and other video equipment.
Audio	Optical digital audio		OPTICAL	Optical digital connections allow you to enjoy digital sound such as PCM*, Dolby Digital or DTS. The audio quality is the same as coaxial.
	Coaxial digital audio		Orange COAMAL	Coaxial digital connections allow you to enjoy digital sound such as PCM*, Dolby Digital or DTS. The audio quality is the same as optical.
	Analog audio (RCA)		White Red	Analog audio connections (RCA) carry analog audio.
	1/8" (3.5 mm) Stereo mini plug		(D)	This cable carries analog audio.

Available sampling rate for PCM input signal is 32/44.1/48/88.2/96 kHz. Even 176.4/192 kHz is effective in case of the HDMI connection.

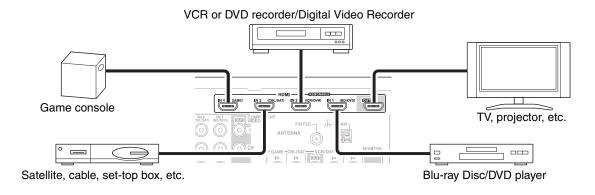
### Note

- The AV receiver does not support SCART plugs.
- The AV receiver's optical digital jacks have shutter-type covers that open when an optical plug is inserted and close when it's removed. Push plugs in all the way.

### Caution

• To prevent shutter damage, hold the optical plug straight when inserting and removing.

### Connecting Your Components with HDMI



Connect your components to the appropriate jacks. The default input assignments are shown below.

 $\checkmark$ : Assignment can be changed ( $\rightarrow$  39).

Jack		Signal	Components	Assignable
Input HDMI IN 1		Audio/Video	Blu-ray Disc/DVD player	V
	HDMI IN 2		VCR or DVD recorder/Digital Video Recorder	V
	HDMI IN 3		Satellite, cable, set-top box, etc.	V
	HDMI IN 4		Game console	<b>v</b>
Output	HDMI OUT		TV, projector, etc.	

Refer to "About HDMI" (→ 72) and "Using an RIHD-compatible TV, Player, or Recorder" (→ 73).

### ■ Audio return channel (ARC) function

Audio return channel (ARC) function enables an HDMI capable TV to send the audio stream to the **HDMI OUT** of the AV receiver. To use this function, you must select the **TV/CD** input selector.

• To use ARC function, you must select the **TV/CD** input selector, your TV must support ARC function and "**HDMI Control (RIHD)**" is set to "**On**"(→ **49**).

### Tip

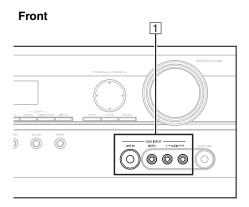
- To listen to audio received by the **HDMI IN** jacks through your TV's speakers:
- Set the "TV Control" setting to "On" (→ 50) for an RIFID-compatible TV.
- Set the "Audio TV Out" setting to "On" (→ 49) when the TV is not compatible with ¬UIID or the "TV Control" setting to "Off".
- Set your Blu-ray Disc/DVD player's HDMI audio output setting to PCM.
- To listen to TV audio through the AV receiver, see "Connecting Your Components" (→ 20).

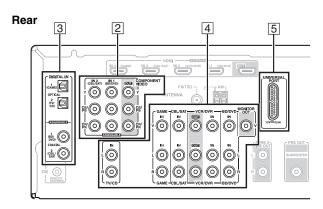
### Note

- When listening to an HDMI component through the AV receiver, set the HDMI component so that its video can be seen on the TV screen (on the TV, select the input of the HDMI component connected to the AV receiver). If the TV power is off or the TV is set to another input source, this may result in no sound from the AV receiver or the sound may be cut off.
- When the "Audio TV Out" setting is set to "On" (→ 49) to hear from your TV's speakers, by controlling the AV receiver's volume, the sound will be output from the AV receiver's speakers, too. When the "TV Control" setting is set to "On" (→ 50) to hear from speakers of RIHID-compatible TV, by controlling the AV receiver's volume, the AV receiver's speakers will produce sound while the TV's speakers are muted. To stop the AV receiver's speakers producing sound, change the settings, change your TV's settings, or turn down the AV receiver's volume.

### **Connecting Your Components**

The on-screen setup menus appear only on a TV that is connected to the HDMI OUT. If your TV is connected to the MONITOR OUT V or the COMPONENT VIDEO OUT, use the AV receiver's display when changing settings.





Connect your components to the appropriate jacks. The default input assignments are shown below.

 $\checkmark$ : Assignment can be changed ( $\Rightarrow$  **40**).

No.	Jack	k Signal		Signal	Components	Assignable
1	AUX INPUT	LINE IN VIDEO		Analog audio	Portable audio player	
				Composite video	Camcorder, etc	
		AUDIO L/R		Analog audio	1	
2	COMPONENT	IN 1 (BD/DVD)		Component video	Blu-ray Disc/DVD player	~
	VIDEO	IN 2 (CBL/SAT) OUT		1	Satellite, cable, set-top box, etc.	~
					TV, projector, etc.	
3	DIGITAL IN	OPTICAL	IN 1 (GAME)	Digital audio	Game console	V
			IN 2 (TV/CD)		TV, CD player	~
		COAXIAL	IN 1 (BD/DVD)		Blu-ray Disc/DVD player	~
		IN 2 (CBL/SAT)		1	Satellite, cable, set-top box, etc.	~
4	MONITOR OUT			Composite video	TV, projector, etc.	
	BD/DVD IN			Analog audio and composite video	Blu-ray Disc/DVD player	
	VCR/DVR IN	VCR/DVR IN			VCR or DVD recorder/digital video recorder	
	CBL/SAT IN				Satellite, cable, set-top box, etc.	
	GAME IN	GAME IN			Game console	
	TV/CD IN			Analog audio	TV, CD player, Turntable*1, cassette tape deck, MD, CD-R	
5			Analog audio/ video	Universal port optional dock (UP-A1 etc.)		

### Note

- \*1 Connect a turntable (MM) that has a phono preamp built-in. If your turntable (MM) doesn't have it, you'll need a commercially available phono preamp.
  - If your turntable has a moving coil (MC) type cartridge, you'll need a commercially available MC head amp or MC transformer as well as a phono preamp. See your turntable's manual for details.
- When you connect to both **AUX INPUT AUDIO** jacks and **AUX INPUT LINE IN** jack at the same time, **AUX INPUT LINE IN** jack will be given a higher priority.
- The AV receiver can output audio and video signals from the AUX INPUT jacks to the VCR/DVR OUT jacks.
- With connection 4, you can listen and record audio from the external components while you are in Zone 2. You can listen and record audio from the external components in the main room; you can listen to the audio in Zone 2 as well.
- With connection 3, you can enjoy Dolby Digital and DTS. (To record or listen in Zone 2 as well, use 3 and 4.)
- With connection 4, if your Blu-ray Disc/DVD player has both the main stereo and multichannel outputs, be sure to connect the main stereo.

### ■ How to record the video

With the connections described above, you cannot record the video through the AV receiver. To make a connection for video recording  $(\rightarrow 32)$ .

### Connecting Onkyo RI Components

### Step 1:

Make sure that each Onkyo component is connected with an analog audio cable (connection  $\boxed{4}$  in the hookup examples) ( $\Rightarrow$  **20**).

### Step 2:

Make the  $\mathbf{RI}$  connection (see illustration below).

### Step 3:

If you're using an RI Dock, or cassette tape deck, change the Input Display (→ **27**).

With **RI** (Remote Interactive), you can use the following special functions:

### ■ System On/Auto Power On

When you start playback on a component connected via RI while the AV receiver is on Standby, the AV receiver will automatically turn on and select that component as the input source.

### **■** Direct Change

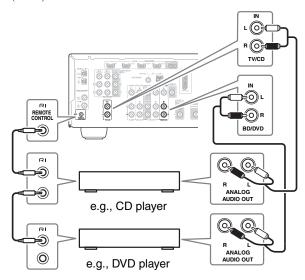
When playback is started on a component connected via RI, the AV receiver automatically selects that component as the input source.

### **■ Remote Control**

You can use the AV receiver's remote controller to control your other  $\square$ -capable Onkyo components, pointing the remote controller at the AV receiver's remote control sensor instead of the component. You must enter the appropriate remote control code first  $(\rightarrow 61)$ .

### Note

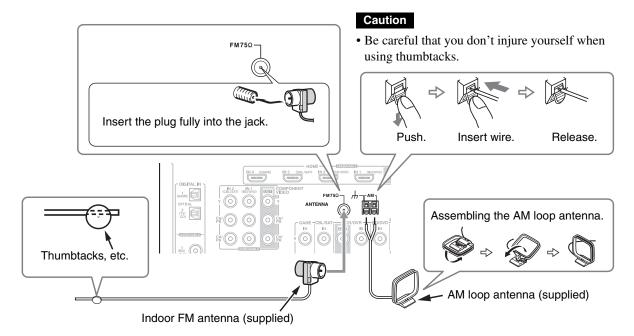
- Use only RI cables for RI connections. RI cables are supplied with Onkyo players (DVD, CD, etc.).
- Some components have two RI jacks. You can connect either one to the AV receiver. The other jack is for connecting additional RI-capable components.
- Connect only Onkyo components to RI jacks. Connecting other manufacturer's components may cause a malfunction.
- Some components may not support all **RI** functions. Refer to the manuals supplied with your other Onkyo components.
- While Zone 2 is on, the System On/Auto Power On and Direct Change RI functions do not work.
- Do not use RI connections if you use HDMI Control (RIHD)
   (→ 49).



### Connecting Antenna

This section explains how to connect the supplied indoor FM antenna and AM loop antenna.

The AV receiver won't pick up any radio signals without any antenna connected, so you must connect the antenna to use the tuner.



### Note

- Once your AV receiver is ready for use, you'll need to tune into a radio station and position the antenna to achieve the best possible reception.
- · Keep the AM loop antenna as far away as possible from your AV receiver, TV, speaker cables, and power cords.

### Tip

- If you cannot achieve good reception with the supplied indoor FM antenna, try a commercially available outdoor FM antenna instead.
- If you cannot achieve good reception with the supplied indoor AM loop antenna, try using it with a commercially available outdoor AM antenna.

### Which Connections Should I Use?

The AV receiver supports several connection formats for compatibility with a wide range of AV equipment. The format you choose will depend on the formats supported by your components. Use the following sections as a guide.

The on-screen setup menus appear only on a TV that is connected to the HDMI OUT. If your TV is connected to the MONITOR OUT V or the COMPONENT VIDEO OUT, use the AV receiver's display when changing settings.

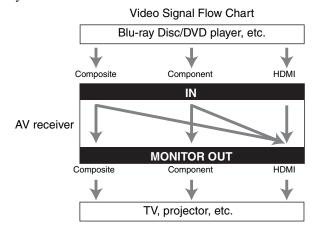
### **Video Connection Formats**

Video component can be connected by using any one of the following video connection formats: composite video, component video, or HDMI, the latter offering the best picture quality.

Video input signals flow through the AV receiver as shown, with composite video and component video sources all being upconverted for the HDMI output.

The composite video and component video outputs pass through their respective input signals as they are.

When you connect audio component to an HDMI or COM-PONENT input, you must assign that input to an input selector  $(\rightarrow 39)$ .



### ■ Signal Selection

If signals are present at more than one input, the inputs will be selected automatically in the following order of priority: HDMI, component video, composite video.

However, for component video only, regardless of whether a component video signal is actually present, if a component video input is assigned to the input selector, that component video input will be selected. And if no component video input is assigned to the input selector, this will be interpreted as no component video signal being present.

In the Signal Selection Example shown on the right, video signals are present at both the HDMI and composite video inputs, however, the HDMI signal is automatically selected as the source and video is output by the HDMI outputs.

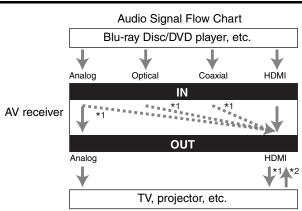
# Signal Selection Example Blu-ray Disc/DVD player, etc. Composite Component IN IN MONITOR OUT Composite Component HDMI TV, projector, etc.

### **Audio Connection Formats**

Audio component can be connected by using any of the following audio connection formats: analog, optical, coaxial, or HDMI.

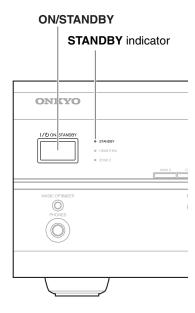
When choosing a connection format, bear in mind that the AV receiver does not convert digital input signals for analog line outputs and vice versa. For example, audio signals connected to an optical or coaxial digital input are not output by the analog **VCR/DVR OUT**.

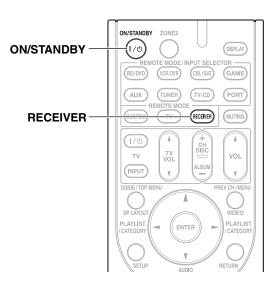
If signals are present at more than one input, the inputs will be selected automatically in the following order of priority: HDMI, digital, analog.



- \*1 Depends on the "Audio TV Out" setting (→ 49).
- \*2 This setting is available, when "Audio Return Channel" setting is set to "Auto" (→ 49), you must select the TV/CD input selector and your TV must support ARC function.

# **Turning On/Off the AV Receiver**





### Turning On

Press ON/STANDBY on the front panel.

or

Press RECEIVER followed by ON/STANDBY on the remote controller.

The AV receiver comes on, the display lights, and the **STANDBY** indicator goes off.

### **Turning Off**

Press ON/STANDBY on the front panel or the remote controller.

The AV receiver will enter Standby mode. To prevent any loud surprises when you turn on the AV receiver, always turn down the volume before you turn it off.

# **Basic Operations**

The on-screen menus appear only on a TV that is connected to the HDMI OUT. If your TV is connected to the MONITOR OUT V or the COMPONENT VIDEO OUT, use the AV receiver's display when changing settings.

This manual describes the procedure using the remote controller unless otherwise specified.

### Selecting the Language Used for the Onscreen Setup Menus

You can determine the language used for the onscreen setup menus. See "Language" in the "OSD Setup"  $(\rightarrow 48)$ .

### Playing the Connected Component

### ■ Operating on the AV receiver

- **1** Use the input selector buttons to select the input source.
- **2** Start playback on the source component. See also:
  - "Controlling Other Components" (→ **60**)
  - "Controlling iPod" (→ **56**)
  - "Listening to the Radio" (→ **30**)
- **3** To adjust the volume, use the MASTER VOLUME control.
- 4 Select a listening mode and enjoy!

See also:

- "Using the Listening Modes" (→ **33**)
- "Audyssey" (→ **44**)

### Operating with the remote controller

- **1** Press RECEIVER followed by INPUT SELECTOR.
- **2** Start playback on the source component. See also:
  - "Controlling Other Components" ( $\rightarrow$  **60**)
  - "Controlling iPod" (→ **56**)
  - "Listening to the Radio" (→ **30**)
- **3** To adjust the volume, use VOL  $\Delta/\nabla$ .
- **4** Select a listening mode and enjoy! See also:
  - "Using the Listening Modes" (→ 33)
  - "Audyssey" (→ **44**)

### ■ Adjusting the subwoofer volume level

# Use the subwoofer's **OUTPUT LEVEL** control to adjust the volume of the subwoofer.

Because our ears are less sensitive to very low bass sounds, there's a temptation to set the level of the subwoofer too high. As a rule of thumb, set the subwoofer level to what you think is the optimal level, and then back it off slightly.

### Note

 When the subwoofer volume level is set to a positive (+) value, the maximum master volume level is reduced proportionally.

### Displaying Source Information

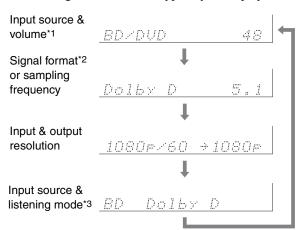
You can display various information about the current input source as follows. (Components connected to the **UNIVERSAL PORT** jack are excluded.)

Press RECEIVER followed by DISPLAY repeatedly to cycle through the available information.

### Tip

• Alternatively, you can use the AV receiver's **DISPLAY**.

The following information can typically be displayed.



- \*1 When AM or FM radio is used, the band, preset number, and frequency are displayed.
- \*2 If the input signal is analog, no format information is displayed. If the input signal is PCM, the sampling frequency is displayed. If the input signal is digital but not PCM, the signal format is displayed.
  - Information is displayed for about three seconds, then the previously displayed information reappears.
- The input source is displayed with the default name even when you have entered a custom name in "Name Edit" (→ 45).

### Using the Music Optimizer

The Music Optimizer function enhances the sound quality of compressed music files.

### Press MUSIC OPTIMIZER on the front panel.

The **M.Opt** indicator lights on the display.

### Tip

- Alternatively, you can use the remote controller's AUDIO and arrow buttons.
- See "Music Optimizer" for more details (→ 51).

### Setting the Display Brightness

You can adjust the brightness of the AV receiver's display.

Press RECEIVER followed by DIMMER repeatedly to select: dim, dimmer, or normal brightness.

### Tip

• Alternatively, you can use the AV receiver's **DIMMER**.

### Muting the AV Receiver

You can temporarily mute the output of the AV receiver.

### Press RECEIVER followed by MUTING.

The output is muted and the **MUTING** indicator flashes on the display.

### Tip

- To unmute, press **MUTING** again or adjust the volume.
- The Mute function is cancelled when the AV receiver is set to Standby.

### Using the Sleep Timer

With the sleep timer, you can set the AV receiver to turn off automatically after a specified period.

# Press RECEIVER followed by SLEEP repeatedly to select the required sleep time.

The sleep time can be set from 90 to 10 minutes in 10 minute steps.

The **SLEEP** indicator lights on the display when the sleep timer has been set. The specified sleep time appears on the display for about 5 seconds, then the previous display reappears.

### qiT

- If you need to cancel the sleep timer, press SLEEP repeatedly until the SLEEP indicator goes off.
- To check the time remaining until the AV receiver sleeps, press **SLEEP**. Note that if you press **SLEEP** while the sleep time is being displayed, you'll shorten the sleep time by 10 minutes.

### Selecting Speaker Layout

You can prioritize which speakers you want to use.

# Press RECEIVER followed by SP LAYOUT repeatedly.

### ▶ Speaker Layout:FH:

The sound from front high speakers is output by priority.

### ▶ Speaker Layout:SB:

The sound from surround back speakers is output by priority.

### Note

Info

- If the Powered Zone 2 is being used (→ 54), this setting cannot be selected.
- When the listening mode that doesn't support front high or surround back speakers is used, the setting cannot be selected.

### Using the Audio and Video Menus

By pressing **AUDIO** or **VIDEO**, you can have a quick access to frequently used menus without having to go through the long standard menu. The menus enable you to change settings and view the current information.

# Press RECEIVER followed by AUDIO or VIDEO. Either of the following screens will be superimposed on the TV screen. BDIDVD

Subwoofer Level



### **2** Use **△**/**▼**/**⋖**/**►** to make the desired selection.

### ■ Audio\*1

▶ You can change the following settings: "Bass", "Treble", "Subwoofer Level", "Center Level", "Dynamic EQ", "Dynamic Volume", "Late Night", "Music Optimizer", "Cinema filter" and "Audio Selector".

See also:

- "Audyssey" (→ **44**)
- "Using the Audio Settings" (→ **50**)

### ■ Video\*2

You can change the following settings: "Wide Mode" and "Picture Mode".

See also:

• "Picture Adjust" (→ **46**)

### ■ Info\*3\*4

▶ You can view the information of the following items: "Audio", "Video" and "Tuner".

### ■ Input Sel\*4\*5

▶ You can select the input source while viewing the information as follows: the name of input selectors, input assignments, and radio information, and ARC function setting.

Press **ENTER** to display the current input source, followed by **▲**/**▼** to select the desired input source. Pressing **ENTER** again switches to the selected input source.

### ■ Listening Mode

▶ You can select the listening modes that are grouped in the following categories: "MOVIE/TV", "MUSIC" and "GAME".

Use **△**/**▼** to select the category and **◄**/**►** to select the listening mode. Press **ENTER** to switch to the selected listening mode.

### Note

- \*1 If Direct listening mode is selected, "Dynamic EQ" and "Dynamic Volume" cannot be selected.
- \*2 Only when you have selected "Custom" in the "Picture Mode" (→ 46), pressing ENTER allows you to adjust the following items; "Brightness", "Contrast", "Hue", and "Saturation". Press RETURN to return to the original Video menu.
- \*3 Depending on the input source and listening mode, not all channels shown here output the sound.
- \*4 When you have entered a custom name in "Name Edit" (→ 45), the input source is displayed with that name. But even if not, the component name may be displayed if the AV receiver receives it via HDMI connection (→ 19).
- \*5 For the **PORT** input selector, the name of Universal Port Option Dock will be displayed.

### Changing the Input Display

When you connect an RI-capable Onkyo component, you must configure the input display so that RI can work properly.

This setting can be done only from the front panel.

**1** Press TV/CD, GAME or VCR/DVR so that "TV/CD", "GAME" or "VCR/DVR" appears on the display.

TUZCD	
GAME	
UCR/DUR	

2 Press and hold down TV/CD, GAME or VCR/DVR (about 3 seconds) to change the input display.

Repeat this step to select "MD", "CDR", "DOCK" or "TAPE".

For the **TV/CD** input selector, the input display changes in this order:

For the **GAME** input selector, the setting changes in this order:

$$GAME \leftrightarrow DOCK$$

For the **VCR/DVR** input selector, the setting changes in this order:

$$VCR/DVR \leftrightarrow DOCK$$

### Note

- DOCK can be selected for the TV/CD, GAME or VCR/DVR input selector, but not at the same time.
- Enter the appropriate remote control code before using the remote controller for the first time (→ 60).

### Using Headphones

Connect a pair of stereo headphones with a standard plug (1/4 inch or 6.3 mm) to the PHONES jack.

### Note

- Always turn down the volume before connecting your headphones.
- While the headphones plug is inserted in the PHONES jack, the speakers are turned off. (The Powered Zone 2 speakers are not turned off.)
- When you connect a pair of headphones, the listening mode is set to Stereo, unless it's already set to Stereo, Mono or Direct.
- Only the Stereo, Direct and Mono listening modes can be used with headphones.

### Audyssey 2EQ® Room Correction and Speaker Setup

With the supplied calibrated microphone, Audyssey 2EQ automatically determines the number of speakers connected, their size for purposes of bass management, optimum crossover frequencies to the subwoofer (if present), and distances from the primary listening position. Audyssey 2EO then removes the distortion caused by room acoustics by capturing room acoustical problems over the listening area in both the frequency and time domain. The result is clear, well-balanced sound for everyone. Enabling Audyssey 2EQ allows you to also use Audyssey Dynamic EQ®, which maintains the proper octave-to-octave balance at any volume level  $(\rightarrow 44)$ . Before using this function, connect and position all of your speakers.

If "Dynamic EQ" is set to "On" (→ 44), the "Equalizer" setting will be set to "Audyssey" (→ 42). On the other hand, if it is set to "Off", the "Dynamic Volume" setting will be set to "Off" ( $\rightarrow$  44).

It takes about 15 minutes to complete Audyssey 2EQ Room Correction and Speaker Setup for 3 positions. Total measurement time varies depending on the number of speakers.

### Using Audyssey 2EQ

Using Audyssey 2EQ to create a listening environment in your home theater that all listeners will enjoy, Audyssey 2EQ takes measurements at up to 3 positions within the listening area. Position the microphone at ear height of a seated listener with the microphone tip pointed directly at the ceiling using a tripod. Do not hold the microphone in your hand during measurements as this will produce inaccurate results.

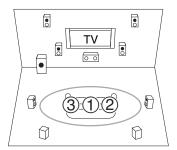
### **1** First measurement position

Also referred to as the Main Listening Position this refers to the most central position where one would normally sit within the listening environment. 2EQ uses the measurements from this position to calculate speaker distance, level, polarity, and the optimum crossover value for the subwoofer.

### 2 Second measurement position The right side of the listening area.

3 Third measurement position The left side of the listening area.

The distances from position ① to ② and ① to ③ must be at least 1 meter.

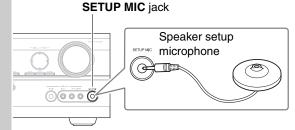


: Listening area

1 to 3: Listening position

### Note

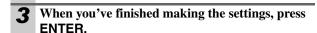
- Make the room as quiet as possible. Background noise and Radio Frequency Interference (RFI) can disrupt the room measurements. Close windows, televisions, radios, air conditioners, fluorescent lights, home appliances, light dimmers, or other devices. Turn off the cell phone (even if it is not in use) or place it away from all audio electronics.
- The microphone picks up test tones which played through each speaker as Audyssey 2EQ Room Correction and Speaker Setup run.
- Audyssey 2EQ Room Correction and Speaker Setup cannot be performed while a pair of headphones is connected.
- Turn on the AV receiver and the connected TV. On the TV, select the input to which the AV receiver is connected.
- **2** Set the speaker setup microphone at the Main Listening Position ①, and connect it to the SETUP MIC jack.



The speaker setting menu appears.

### Note

• The on-screen setup menus appear only on a TV that is connected to the **HDMI OUT**. If your TV is connected to the MONITOR OUT V or the COMPONENT VIDEO **OUT**, use the AV receiver's display when changing set-





### Press ENTER.

Audyssey 2EQ Room Correction and Speaker Setup starts.

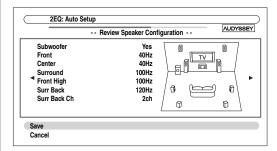
Test tones are played through each speaker as Audyssey 2EQ Room Correction and Speaker Setup runs. This process takes a few minutes. Please refrain from talking during measurements and do not stand between speakers and the microphone. Do not disconnect the speaker setup microphone during Audyssey 2EQ Room Correction and Speaker Setup, unless you want to cancel the setup.

### Place the setup microphone at the next position, and then press ENTER.

Audyssey 2EQ performs more measurements. This takes a few minutes.

When prompted, repeat step 5.

# **7** Use **▲/▼** to select an option, and then press ENTER.



The options are:

### ▶ Save:

Save the calculated settings and exit Audyssey 2EQ® Room Correction and Speaker Setup.

### Cancel:

Cancel Audyssey 2EQ Room Correction and Speaker Setup.

### Note

You can view the calculated settings for the speaker configuration, speaker distances, and speaker levels by using
 ◄/►.

# 8

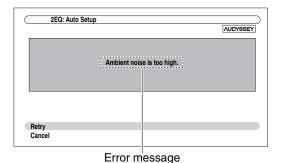
Disconnect the speaker setup microphone.

### Note

- When Audyssey 2EQ Room Correction and Speaker Setup is complete, the "Equalizer" will be set to "Audyssey" (→ 42). The Audyssey indicator will light (→ 9).
- You can cancel Audyssey 2EQ Room Correction and Speaker Setup at any point in this procedure simply by disconnecting the setup microphone.
- Do not connect or disconnect any speakers during Audyssey 2EQ Room Correction and Speaker Setup.
- If the AV receiver is muted, it will be unmuted automatically when Audyssey 2EQ Room Correction and Speaker Setup starts.
- Changes to the room after Audyssey 2EQ Room Correction and Speaker Setup requires you run Audyssey 2EQ Room Correction and Speaker Setup again, as room EQ characteristics may have changed.

### **Error Messages**

While Audyssey 2EQ Room Correction and Speaker Setup is in progress, one of the error messages below may appear.



The options are:

### ▶ Retry:

Try again.

### ▶ Cancel:

Cancel Audyssey 2EQ Room Correction and Speaker Setup.

### • Ambient noise is too high.

The background noise is too loud. Remove the source of the noise and try again.

### • Speaker Matching Error!

The number of speakers detected was different from that of the first measurement. Check the speaker connection.

### • Writing Error!

This message appears if saving fails. Try saving again. If this message appears after 2 or 3 attempts, contact your Onkyo dealer.

### • Speaker Detect Error

This message appears if a speaker is not detected. "**No**" means that no speaker was detected.

### Tip

• See "Speaker Configuration" for appropriate settings (→ 16).

### Changing the Speaker Settings Manually

You can manually make changes to the settings found during Audyssey 2EQ Room Correction and Speaker Setup. See also:

- "Speaker Configuration" (→ 41)
- "Speaker Distance" (→ 41)
- "Level Calibration" (→ **42**)
- "Equalizer Settings" (→ 42)

### **Using a Powered Subwoofer**

If you're using a powered subwoofer and it outputs very low-frequency sound at a low volume level, it may not be detected by Audyssey 2EQ Room Correction and Speaker Setup.

If the "Subwoofer" appears on the "Review Speaker Configuration" screen as "No", increase the subwoofer's volume to the half-way point, set it to its highest crossover frequency, and then try running Audyssey 2EQ Room Correction and Speaker Setup again. Note that if the volume is set too high and the sound distorts, detection issues may occur, so use an appropriate volume level.

# Listening to the Radio

This section describes the procedure using the buttons on the front panel unless otherwise specified.

### Using the Tuner

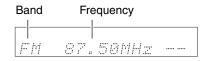
With the built-in tuner you can enjoy AM and FM radio stations. You can store your favorite stations as presets for quick selection.

This model changes FM/AM frequency in 200/10kHz (or 50/9kHz) steps.

### Listening to the Radio

### Press TUNER to select either "AM" or "FM".

In this example, FM has been selected. Each time you press **TUNER**, the radio band changes between AM and FM.



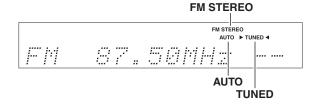
(Actual display depends on the country.)

### **Tuning into Radio Stations**

### ■ Auto tuning mode

- **1** Press TUNING MODE so that the AUTO indicator lights on the display.
- **Press TUNING △**/**V.** Searching stops when a station is found.

When tuned into a station, the **TUNED** indicator lights. When tuned into a stereo FM station, the **FM STEREO** indicator lights on the display, as shown.



### ■ Manual tuning mode

- **1** Press TUNING MODE so that the AUTO indicator goes off on the display.
- Press and hold TUNING △/▼.

  The frequency stops changing when you release the

Press the buttons repeatedly to change the frequency one step at a time.

In manual tuning mode, FM stations will be in mono.

### Tuning into weak FM stereo stations

If the signal from a stereo FM station is weak, it may be impossible to get good reception. In this case, switch to manual tuning mode and listen to the station in mono.

### ■ Tuning into stations by frequency

You can tune into AM and FM stations directly by entering the appropriate frequency.

1 On the remote controller, press TUNER repeatedly to select "AM" or "FM", followed by D.TUN.

(Actual display depends on the country.)

Within 8 seconds, use the number buttons to enter the frequency of the radio station.

For example, to tune to 87.50 (FM), press **8**, **7**, **5**, **0**. If you have entered the wrong number, you can retry after 8 seconds.

### Presetting FM/AM Stations

You can store a combination of up to 40 of your favorite FM/AM radio stations as presets.

**1** Tune into the FM/AM station that you want to store as a preset.

See the previous section.

**2** Press MEMORY.

The preset number flashes.



- While the preset number is flashing (about 8 seconds), use PRESET </ ▶ to select a preset from 1 through 40.
- 4 Press MEMORY again to store the station or channel

The station or channel is stored and the preset number stops flashing.

Repeat this procedure for all of your favorite FM/ AM radio stations.

### Note

You can name your radio presets for easy identification (→ 45).
 Its name is displayed instead of the band and frequency.

### **Selecting Presets**

To select a preset, use PRESET **◄/►** on the AV receiver, or the remote controller's CH +/-.

### Tip

• You can also use the remote controller's number buttons to select a preset directly.

### **Deleting Presets**

**1** Select the preset that you want to delete.

See the previous section.

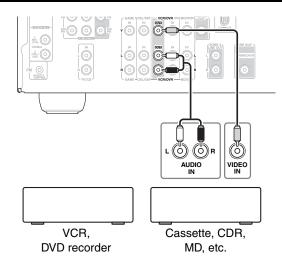
**2** While holding down MEMORY, press TUNING MODE.

The preset is deleted and its number disappears from the display.

# Recording

This section explains how to record the selected input source to a component with recording capability, and how to record audio and video from different sources.

### **Connecting a Recording Component**



### Note

- The AV receiver must be turned on for recording. Recording is not possible while it's in Standby mode.
- If you want to record directly from your TV or playback VCR to the recording VCR without going through the AV receiver, connect the TV/VCR's audio and video outputs directly to the recording VCR's audio and video inputs. See the manuals supplied with your TV and VCR for details.
- Video signals connected to composite video inputs can be recorded only via composite video outputs. If your TV/VCR is connected to a composite video input, the recording VCR must be connected to a composite video output.
- The surround sound and DSP listening modes cannot be recorded.
- Copy-protected Blu-ray Disc/DVDs cannot be recorded.
- Sources connected to a digital input cannot be recorded. Only analog inputs can be recorded.
- DTS signals will be recorded as noise, so don't attempt analog recording of DTS CDs or LDs.

### **AV Recording**

Audio sources can be recorded to a recorder (e.g., cassette deck, CDR, MD) connected to the **VCR/DVR OUT** jacks. Video sources can be recorded to a video recorder (e.g., VCR, DVD recorder) connected to the **VCR/DVR OUT** jack.

**1** Use the input selector buttons to select the source that you want to record.

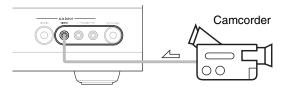
You can watch the source while recording. The AV receiver's **MASTER VOLUME** control has no effect on recording.

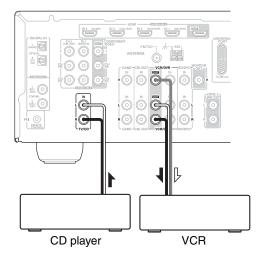
- 2 On your recorder, start recording.
- **3** On the source component, start playback. If you select another input source during recording, that input source will be recorded.

### **Recording Separate AV Sources**

Here you can record audio and video from completely separate sources, allowing you to overdub audio onto your video recordings. This function takes advantage of the fact that when an audio-only input source (**TV/CD**) is selected, the video input source remains unchanged.

In the following example, audio from the CD player connected to the **TV/CD IN** and video from the camcorder connected to the **AUX INPUT VIDEO** jack are recorded by the VCR connected to the **VCR/DVR OUT** jacks.





∠ : Video signal
▲ : Audio signal

- **1** Prepare the camcorder and CD player for playback.
- **2** Prepare the VCR for recording.
- **?** Press AUX input selector.
- **4** Press TV/CD input selector.

This selects the CD player as the audio source, but leaves the camcorder as the video source.

**5** Start recording on the VCR and start playback on the camcorder and CD player.

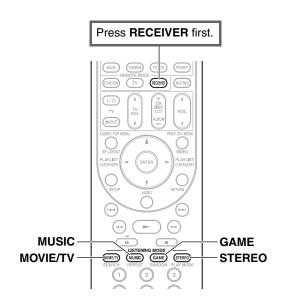
The video from the camcorder and the audio from the CD player are recorded by the VCR.

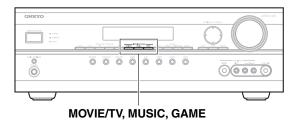
# **Using the Listening Modes**

### Selecting Listening Modes

See "About Listening Modes" for detailed information about the listening modes (→ 34).

### **Listening Mode Buttons**





### MOVIE/TV button

This button selects the listening modes intended for use with movies and TV.

### **MUSIC** button

This button selects the listening modes intended for use with music.

### **GAME** button

This button selects the listening modes intended for use with video games.

### STEREO button

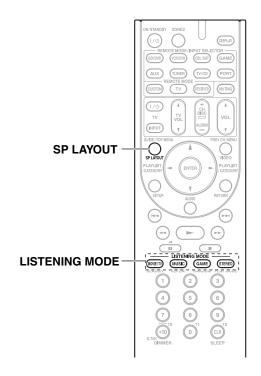
This button selects Stereo and All Channel Stereo listening modes.

- The Dolby Digital and DTS listening modes can only be selected if your Blu-ray Disc/DVD player is connected to the AV receiver with a digital audio connection (coaxial, optical, or HDMI).
- The listening modes you can select depends on the format of the input signal. To check the format, see "Displaying Source Information" (→ 25).
- · While a pair of headphones is connected, you can select the following listening modes: Mono, Direct, and Stereo.
- The listening modes cannot be used while you are listening to sound through your TV speakers coming from components connected to the AV receiver ("TV Sp On" appears on the front panel).

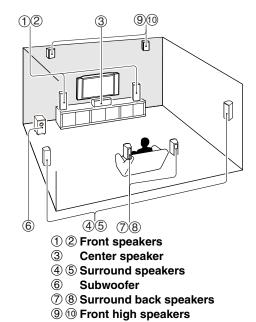
### About Listening Modes

The AV receiver's listening modes can transform your listening room into a movie theater or concert hall, with high fidelity and stunning surround sound.

### **Explanatory Notes**



Speaker illustrations are based on HTP-680.



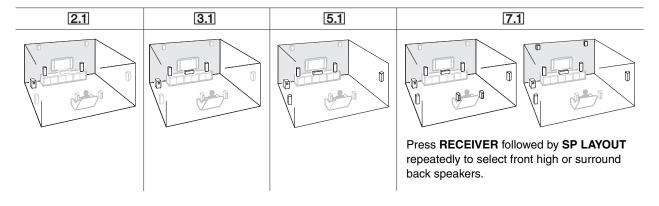
### **■ Input Source**

The following audio formats are supported by the listening mode.

MONO	This is mono (monophonic) sound.
STEREO	This is stereo (stereophonic) sound. Two independent audio signal channels are reproduced through two
	speakers.
5.1ch	This is 5.1-channel surround sound. This surround system has five main channels of sound and a sixth sub-
	woofer channel (called the point-one channel).
7.1ch	This is 7.1-channel surround sound. This is a further sound enhancement to 5.1 channel sound with two
	additional speakers that provide greater sound envelopment and more accurate positioning of sounds.
DTS-ES	This is DTS-ES surround sound. This surround system can produce a discrete or a matrix-encoded sixth
	channel from existing DTS 5.1 encoded material.
MEX	This is Dolby Digital EX surround sound. This provides a center back surround channel from 5.1-channel
	sources.

### ■ Speaker Layout

The illustration shows which speakers are activated in each channel. See "Speaker Configuration" for the speaker setup  $(\rightarrow 41)$ .



### **Listening Modes**

Listening Mode	Description	Input Source	Speaker Layout
Direct Direct	In this mode, audio from the input source is output without surround-sound processing. The "Sp Config" (presence of speakers), "Sp Distance" and "A/V Sync" settings are enabled, but much of the processing set via AUDIO is disabled. See "Advanced Setup" for more details (→ 38).	MONO STEREO 5.1ch 7.1ch DTS-ES IXIEX	[2.1][3.1][5.1] [7.1]*1
Stereo Stereo Mono Mono	Sound is output by the front left and right speakers and subwoofer.  Use this mode when watching an old movie with a mono soundtrack, or use it with the foreign language soundtracks recorded in the left and right channels of some movies. It can also be used with DVDs or other sources containing multiplexed audio, such as karaoke DVDs.	MONO STEREO 5.1ch 7.1ch DTS-ES DIEX	[2.1] 3.1] 5.1 [7.1]
Multichannel Multich	This mode is for use with PCM multichannel sources.	5.1ch	3.1 5.1 7.1
Dolby Pro Logic IIx*2 Dolby Pro Logic II  PLI Movie  PLI Music  PLI Game  PLIX Movie  PLIX Movie  PLIX Game	<ul> <li>Dolby Pro Logic IIx expands any 2-channel source for 7.1-channel playback. It provides a very natural and seamless surround-sound experience that fully envelops the listener. As well as music and movies, video games can also benefit from the dramatic spatial effects and vivid imaging. If you're not using any surround back speakers, Dolby Pro Logic II will be used instead of Dolby Pro Logic IIx.</li> <li>Dolby PLIIx Movie  Use this mode with any stereo or Dolby Surround (Pro Logic) movie (e.g., TV, DVD, VHS).</li> <li>Dolby PLIIx Music  Use this mode with any stereo or Dolby Surround (Pro Logic) music source (e.g., CD, radio, cassette, TV, VHS, DVD).</li> <li>Dolby PLIIx Game  Use this mode with video games, especially those that bear the Dolby Pro Logic II logo.</li> </ul>	STEREO	3.1 5.1 7.1
	Dolby PLIIx Movie and Dolby PLIIx Music     These modes use the Dolby Pro Logic IIx modes to expand 5.1-channel sources for 7.1-channel playback.	5.1ch	7.1
Dolby Pro Logic IIz Height  PLIZ Height	Dolby Pro Logic IIz Height is designed to more effectively use existing program material when height channel speaker outputs are present. Dolby Pro Logic IIz Height can be used to upmix a variety of sources from movies and music, but are particularly well-suited to upmix game content.	STEREO 5.1ch 7.1ch	<b>7.1</b> *3
Dolby EX  Dolby EX  Dolby D EX	These modes expand 5.1-channel sources for 6.1/7.1-channel playback. They're especially suited to Dolby EX soundtracks that include a matrixencoded surround back channel. The additional channel adds an extra dimension and provides an enveloping surround sound experience, perfect for rotating and fly-by sound effects.	5.1ch	7.11*4

		1-	1-
Listening Mode	Description	Input Source	Speaker Layout
Dolby Digital	In this mode, audio from the input source is output without surround-sound processing. "Sp Config" (presence of speakers), "Crossover", "Sp Distance", "A/V Sync" and much of the processing set via AUDIO are enabled.		3.1 5.1 7.1
Dolby D			
Dolby Digital Plus*5	See "Advanced Setup" for more details (→ <b>38</b> ).	5.1ch	3.1 5.1 7.1
Dolby D+		7.1ch	3.1 5.1 7.1 *1
Dolby TrueHD		5.1ch	3.1 5.1 7.1
<b>DD</b> TrueHD		7.1ch	3.1 5.1 7.1 *1
DTS		5.1ch	3.1 5.1 7.1
DTS			
DTS-HD High		5.1ch	3.1 5.1 7.1
Resolution Audio		7.1ch	3.1 5.1 7.1 *1
DTS-HD HR			
DTS-HD Master Audio		5.1ch	3.1 5.1 7.1
DTS-HD MSTR		7.1ch	3.1 5.1 7.1 *1
DTS Express		STEREO	3.1 5.1 7.1
DTS Express		5.1ch	
DSD*6		5.1ch	3.1 5.1 7.1
DSD			
DTS 96/24*7	This mode is for use with DTS 96/24 sources. This is high-resolution DTS	5.1ch	3.1 5.1 7.1
DTS 96/24	with a 96 kHz sampling rate and 24-bit resolution, providing superior fidelity. Use it with DVDs that bear the DTS 96/24 logo.		
DTS-ES Discrete*8	This mode is for use with DTS-ES Discrete soundtracks, which use a dis-	DTS-ES	7.1*4
ES Discrete	crete surround back channel for true 6.1/7.1-channel playback. The seven totally separate audio channels provide better spatial imaging and 360-		
	degree sound localization, perfect for sounds that pan across the surround		
	channels. Use it with DVDs that bear the DTS-ES logo, especially those with a DTS-ES Discrete soundtrack.		
DTS-ES Matrix*8	This mode is for use with DTS-ES Matrix soundtracks, which use a matrix-	DTS-ES	<b>7.1</b> *4
ES Matrix	encoded back-channel for 6.1/7.1-channel playback. Use it with DVDs that bear the DTS-ES logo, especially those with a DTS-ES Matrix soundtrack.		
DTS Neo:6	This mode expands any 2-channel source for up to 7.1-channel playback. It	STEREO	3.1 5.1 7.1 *4
Neo: 6	uses seven full-bandwidth channels of matrix decoding for matrix-encoded material, providing a very natural and seamless surround sound experience		
NooisCinama	that fully envelops the listener.		
Neo:6Cinema	Neo:6 Cinema     Use this mode with any stereo movie (e.g., TV, DVD, VHS).		
Neo:6 Music	• Neo:6 Music		
	Use this mode with any stereo music source (e.g., CD, radio, cassette, TV, VHS, DVD).		
	This mode uses Neo:6 to expand 5.1-channel sources for 6.1/7.1-channel	5.1ch	<b>7.1</b> *4
	playback.		

## **Onkyo-Original DSP Listening Modes**

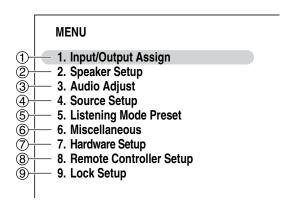
Listening Mode	Description	Input	Speaker
Listering wode	Description	Source	Layout
Orchestra Orchestra	Suitable for classical or operatic music, this mode emphasizes the surround channels in order to widen the stereo image, and simulates the natural reverberation of a large hall.	MONO STEREO 5.1ch	<b>5.1 7.1</b> *9
Unplugged Unplugged	Suitable for acoustic instruments, vocals, and jazz, this mode emphasizes the front stereo image, giving the impression of being right in front of the stage.	DTS-ES DIEX	
Studio-Mix Studio-Mix	Suitable for rock or pop music, listening to music in this mode creates a lively sound field with a powerful acoustic image, like being at a club or rock concert.		
TV Logic	This mode adds realistic acoustics to TV shows produced in a TV studio, surround effects to the entire sound, and clarity to voices.		
Game-RPG  Game-RPG	Use this mode when playing role playing game discs.		
Game-Action  Game-Action	Use this mode when playing action game discs.		
Game-Rock  Game-Rock	Use this mode when playing rock game discs.		
Game-Sports  Game-Sports	Use this mode when playing sports game discs.		
All Ch Stereo	Ideal for background music, this mode fills the entire listening area with stereo sound from the front, surround, and surround back speakers.	MONO STEREO 5.1ch	<b>3.1 5.1 7.1</b> *9
Full Mono	In this mode, all speakers output the same sound in mono, so the sound you hear is the same regardless of where you are within the listening room.	7.1ch DTS-ES	
T-D (Theater- Dimensional)	With this mode you can enjoy a virtual surround sound even with only two or three speakers. This works by controlling how sounds reach the listener's left and right ears. Good results may not be possible if there's too much reverb, so we recommend that you use this mode in an environment with little or no natural reverb.	MEX	[2.1] 3.1] 5.1] [7.1]

- \*1 When the input source contains the encoded front high channel, front high speakers output the sound.
- \*2 If there are no surround back speakers, or Powered Zone 2 is being used, Dolby Pro Logic II is used.
- \*3 Surround back speakers are not supported.
- \*4 Front high speakers are not supported.
- \*5 For the Blu-ray Discs, Dolby Digital is used in a 3.1/5.1-channel speaker system.
- \*6 AV receiver can input the DSD signal from **HDMI IN**. Setting the output setting on the player side to PCM might obtain a better sound according to the player. In that case, set the output setting on the player side to PCM.
- \*7 Depending on the input source, DTS is used.
- $^{\star}8$   $\,$  If there are no surround back speakers, DTS is used.
- \*9 Output can be switched between front high or surround back speakers by pressing **SP LAYOUT** [depending on the "**Speaker Configuration**" setting (→ **41**)].
- The listening modes cannot be selected with some source formats.

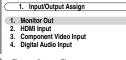
## On-screen Setup Menus

The on-screen setup menus appear only on a TV that is connected to the HDMI OUT. If your TV is connected to the composite video MONITOR OUT or the **COMPONENT VIDEO OUT, use the AV receiver's** display when changing settings.

This manual describes the procedure using the remote controller unless otherwise specified.



- 1 Input/Output Assign (**→ 39**)
- 6 Miscellaneous  $(\rightarrow 48)$

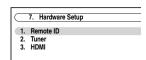




② Speaker Setup (**→ 40**)

Hardware Setup (**→ 48**)

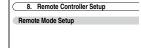




3 Audio Adjust  $(\rightarrow 42)$ 

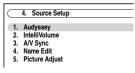
**Remote Controller Setup** (→ **60**)





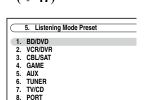
**④** Source Setup (→ **44**)

**9** Lock Setup (→ **50**)

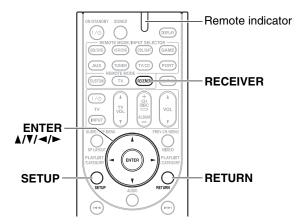




**⑤** Listening Mode Preset (**→ 47**)

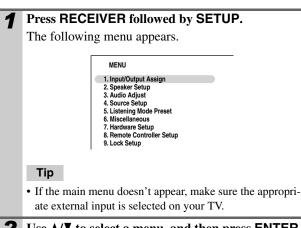


## Common Procedures in Setup Menu



The on-screen setup menus appear on the connected TV and provide a convenient way to change the AV receiver's various settings. Settings are organized into 9 categories on the main menu.

Carry out the settings by using the on-screen display.



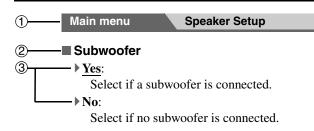
- Use  $\blacktriangle/\blacktriangledown$  to select a menu, and then press ENTER.
- Use  $\blacktriangle/\blacktriangledown$  to select target, and then press ENTER.
- Use **▲/▼** to select option and use **◄/►** to change the setting.

Press **SETUP** to close the menu.

Press **RETURN** to return to the previous menu.

- This procedure can also be performed on the AV receiver by using **SETUP**, arrow buttons, and **ENTER**.
- During Audyssey 2EQ® Room Correction and Speaker Setup, messages, etc., that are displayed on the TV screen will appear in the Display.

## **Explanatory Notes**



- (1) Menu selection
- ② Setting target
- 3 Setting options (default setting underlined)

## Input/Output Assign

Main Menu

Input/Output Assign

#### **Monitor Out**

You can specify the output resolution for the **HDMI OUT** and have the AV receiver upconvert the picture resolution as necessary to match the resolution supported by your TV.

#### ■ Resolution

## Through:

Select this to pass video through the AV receiver at the same resolution and with no conversion.

#### Auto:

Select this to have the AV receiver automatically convert video at resolutions not supported by your TV.

#### ▶ 480p:

Select this for 480p output and video conversion as necessary.

#### ▶720p:

Select this for 720p output and video conversion as necessary.

#### ▶ 1080i:

Select this for 1080i output and video conversion as necessary.

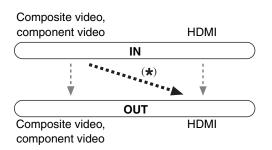
#### ▶ 1080p:

Select this for 1080p output and video conversion as necessary.

#### **HDMI** Input

If you connect a video component to an HDMI input, you must assign that input to an input selector. For example, if you connect your Blu-ray Disc/DVD player to **HDMI IN 2**, you must assign "**HDMI2**" to the "**BD/DVD**" input selector.

If you've connected your TV to the AV receiver with an HDMI cable, composite video and component video sources can be upconverted\* to HDMI. See "Video Connection Formats" for more information on video signal flow and upconversion ( $\Rightarrow$  23).



Here are the default assignments.

Input selector	Default assignment
BD/DVD	HDMI1
VCR/DVR	HDMI2
CBL/SAT	HDMI3
GAME	HDMI4
AUX	
TUNER	(Fixed)
TV/CD	
PORT	

# ■ BD/DVD, VCR/DVR, CBL/SAT, GAME, AUX, TV/CD, PORT

## ▶ HDMI1, HDMI2, HDMI3, HDMI4:

Select a corresponding HDMI input that the video component has been connected.

**)** - - - -:

Select this to output composite video and component video sources from the **HDMI OUT**. The video signal from HDMI output is configured in "Component Video Input" ( $\rightarrow$  40).

• Each HDMI input cannot be assigned to two input selectors or more. When **HDMI1** - **HDMI4** have already been assigned, you must set first any unused input selectors to "----" or you will be unable to assign **HDMI1** - **HDMI4** to input selector.

- When an HDMI IN is assigned to an input selector as explained here, the same HDMI IN will be set as a priority in the "Digital Audio Input" (→ 40). In this case, if you want to use the coaxial or optical audio input, make the selection in the Audio Selector in the Audio menu (→ 26).
- "TUNER" selector cannot be assigned and is fixed at the "----" option.
- If you connect a component (such as UP-A1 Dock that seated iPod) to UNIVERSAL PORT jack, you cannot assign any input to "PORT" selector.
- Do not assign the component connected with the HDMI input to "TV/CD" selector when you set "TV Control" setting to "On" (→ 50). Otherwise, appropriate CEC (Consumer Electronics Control) operation will not be guaranteed.

## **Component Video Input**

If you connect a video component to a component video input, you must assign that input to an input selector. For example, if you connect your Blu-ray Disc/DVD player to **COMPONENT VIDEO IN 2**, you must assign "**IN2**" to the "**BD/DVD**" input selector.

Here are the default assignments.

Input selector	Default assignment
BD/DVD	IN1
VCR/DVR	
CBL/SAT	IN2
GAME	
AUX	
TUNER	(Fixed)
TV/CD	
PORT	

# ■ BD/DVD, VCR/DVR, CBL/SAT, GAME, AUX, TV/CD, PORT

#### ▶ IN1, IN2:

Select a corresponding component video input that the video component has been connected.

#### **---**:

Select if you are using **HDMI** output, not component video output, to output composite video and component video sources.

#### Note

 If you connect a component (such as UP-A1 Dock that seated iPod) to the UNIVERSAL PORT jack, you cannot assign any input to "PORT" selector.

## **Digital Audio Input**

If you connect a component to a digital audio input, you must assign that input to an input selector. For example, if you connect your CD player to the **OPTICAL IN 1**, you must assign "**OPT1**" to the "**TV/CD**" input selector. Here are the default assignments.

Input selector	Default assignment
BD/DVD	COAX1
VCR/DVR	
CBL/SAT	COAX2
GAME	OPT1
AUX	
TUNER	(Fixed)
TV/CD	OPT2
PORT	

# ■ BD/DVD, VCR/DVR, CBL/SAT, GAME, AUX, TV/CD, PORT

#### ▶ COAX1, COAX2, OPT1, OPT2:

Select a corresponding digital audio input that the component has been connected.

#### **---**:

Select if the component is connected to an analog audio input.

#### Note

- When an HDMI IN is assigned to an input selector in "HDMI Input" (→ 39), the same HDMI IN will be set as a priority in this assignment. In this case, if you want to use the coaxial or optical audio input, make the selection in the Audio Selector in the Audio menu.
- Available sampling rate for PCM signals from a digital input (optical and coaxial) is 32/44.1/48/88.2/96 kHz/16, 20, 24 bit.
- If you connect a component (such as UP-A1 Dock that seated iPod) to the UNIVERSAL PORT jack, you cannot assign any input to "PORT" selector.

## Speaker Setup

#### Main menu

#### **Speaker Setup**

Some of the settings in this section are set automatically by Audyssey  $2EQ^{\textcircled{@}}$  Room Correction and Speaker Setup function ( $\rightarrow$  **28**).

Here you can check the settings made by Audyssey 2EQ Room Correction and Speaker Setup function, or set them manually, which is useful if you change one of the connected speakers after using Audyssey 2EQ Room Correction and Speaker Setup function.

#### Note

- These settings are disabled when:
- a pair of headphones is connected, or
- the "Audio TV Out" setting is set to "On" (→ 49) and an input selector other than HDMI is selected.

## **Speaker Settings**

If you change these settings, you must run Audyssey 2EQ Room Correction and Speaker Setup again  $(\rightarrow 28)$ .

### **■** Speaker Terminal Assign

#### Front High/Zone2

With this setting, you can specify the speakers connected to **FRONT HIGH OR ZONE 2 SPEAKERS** terminals.

### Front High:

Front high speakers can be used.

#### ▶ Zone2

Zone 2 speakers can be used (Powered Zone 2 enabled).

#### SurrBack/Front High

With this setting, you can specify the speakers connected to **SURR BACK OR FRONT HIGH SPEAK-ERS** terminals.

#### Surr Back:

Surround back speakers can be used.

## ▶ Front High:

Front high speakers can be used.

#### Note

 If "Front High" is selected in the "Front High/Zone2" setting, you cannot select "Front High" here.

## **Speaker Configuration**

This setting is set automatically by Audyssey  $2EQ^{\textcircled{\$}}$ Room Correction and Speaker Setup function ( $\rightarrow$  **28**).

With these settings, you can specify which speakers are connected and a crossover frequency for each speaker. Specify "Full Band" for speakers that can output low frequency bass sounds adequately, for example, speakers with a good sized woofer. For smaller speakers, specify a crossover frequency. Sounds below the crossover frequency will be output by the subwoofer instead of the speaker. Refer to your speaker's manuals to determine the optimum crossover frequencies.

#### Subwoofer

Yes:

Select if a subwoofer is connected.

No

Select if no subwoofer is connected.

#### ■ Front

Full Band

▶ 40Hz to 100Hz, 120Hz, 150Hz, 200Hz

## Note

• If the "Subwoofer" setting is set to "No", the "Front" setting is fixed at "Full Band".

## ■ Center\*1, Surround\*1, Surr Back\*2\*3\*4\*5

Full Band

▶ 40Hz to 100Hz, 120Hz, 150Hz, 200Hz

None.

Select if no speaker is connected.

## ■ Front High\*1\*2\*4\*6

Full Band

▶ 40Hz to 100Hz, 120Hz, 150Hz, 200Hz

None:

Select if no speaker is connected.

#### Note

- \*1 "Full Band" can be selected only when "Full Band" is selected in the "Front" setting.
- \*2 If the "Surround" setting is set to "None", this setting cannot be selected
- \*3 If the "Surround" setting is set to anything other than "Full Band", "Full Band" cannot be selected here.
- \*4 If the Powered Zone 2 is being used (→ **54**), this setting cannot be selected.
- \*5 If you have selected other than "Surr Back" in the "Surr-Back/Front High" setting, this setting cannot be selected.
- \*6 If you have selected other than "Front High" in the "Front High/Zone2" or "SurrBack/Front High" setting, this setting cannot be selected.

#### ■ Surr Back Ch

▶ 1ch:

Select if only one surround back speaker is connected.

#### ▶ 2ch:

Select if two (left and right) surround back speakers are connected.

#### Note

 If the "Surr Back" Setting is set to "None" (→ 48), this setting cannot be selected.

#### **■ LPF of LFE**

## (Low-Pass Filter for the LFE Channel)

▶80Hz, 90Hz, 100Hz, 120Hz

With this setting, you can specify the cutoff frequency of the LFE channel's low-pass filter (LPF), which can be used to filter out unwanted hum. The LPF only applies to sources that use the LFE channel.

#### ■ Double Bass

This setting is NOT set automatically by Audyssey 2EQ Room Correction and Speaker Setup function ( $\rightarrow$  28).

With the Double Bass function, you can boost bass output by feeding bass sounds from the front left, right, and center channels to the subwoofer.

On:

Double Bass function on.

▶ Off·

Double Bass function off.

#### Note

• This function can be set only if the "Subwoofer" setting is set to "Yes", and the "Front" setting is set to "Full Band".

## **Speaker Distance**

This setting is set automatically by Audyssey 2EQ Room Correction and Speaker Setup function (→ **28**).

Here you can specify the distance from each speaker to the listening position so that the sound from each speaker arrives at the listener's ears as the sound designer intended.

## Unit

• feet:

Distances can be set in feet. Range: "1ft" to "30ft" in 1 foot steps.

meters:

Distances can be set in meters. Range: "0.3m" to "9.0m" in 0.3 meter steps.

# ■ Left, Front High Left, Center, Front High Right, Right, Surr Right, Surr Back Right, Surr Back Left, Surr Left, Subwoofer

▶ Specify the distance from the each speaker to your listening position.

#### Note

 Speakers that you set to "No" or "None" in the "Speaker Configuration" cannot be selected (→ 41).

#### **Level Calibration**

This setting is set automatically by Audyssey 2EQ<sup>®</sup> Room Correction and Speaker Setup function (→ **28**).

Here you can adjust the level of each speaker with the built-in test tone so that the volume of each speaker is the same at the listening position.

# ■ Left, Front High Left, Center\*1, Front High Right, Right, Surr Right, Surr Back Right, Surr Back Left, Surr Left

▶-12dB to 0dB to +12dB in 1 dB step.

#### ■ Subwoofer\*1

▶-15dB to 0dB to +12dB in 1 dB step.

#### Note

- Speakers that you set to "No" or "None" in the "Speaker Configuration" cannot be selected (→ 41).
- The speakers cannot be calibrated while the AV receiver is muted
- \*1 For the center speaker and subwoofer, the level settings made by using the Audio menu are saved here as the default settings (→ 26).

#### Tip

 If you're using a handheld sound level meter, adjust the level of each speaker so that it reads 75 dB SPL at the listening position, measured with C-weighting and slow reading.

## **Equalizer Settings**

This setting is set automatically by Audyssey 2EQ Room Correction and Speaker Setup function (→ 28).

#### ■ Equalizer

#### ▶ Audyssey:

This is selected automatically by Audyssey 2EQ Room Correction and Speaker Setup function. The **Audyssey** indicator will light (→ 9) and "**Dynamic EQ**" and "**Dynamic Volume**" become

"Dynamic EQ" and "Dynamic Volume" become available (→ 44).

#### Off:

No Audyssey 2EQ equalizing will apply.

#### Note

- While the Direct listening mode is selected, this setting has no effect.
- · Audyssey equalizing does not work for DSD sources.

## Audio Adjust

#### Main menu

#### **Audio Adjust**

With the Audio Adjust functions and settings, you can adjust the sound and listening modes as you like.

## Multiplex/Mono

## **■** Multiplex

This setting determines which channel of a stereo multiplex source is output. Use it to select audio channels or languages with multiplex sources, multilingual TV broadcasts, and so on.

## **Input Channel**

## ▶ Main:

The main channel is output.

#### ▶ Sub:

The sub channel is output.

#### ▶ Main/Sub:

Both the main and sub channels are output.

#### ■ Mono

This setting specifies the channel to be used for playing any 2-channel digital source such as Dolby Digital, or 2-channel analog/PCM source in the Mono listening mode.

#### **Input Channel**

#### ▶ Left + Right:

Both the left and right channels are output.

#### ▶ Left

Only the left channel is output.

#### Right:

Only the right channel is output.

## Dolby

## ■ PLIIx Music (2ch Input)

These settings apply to only 2-channel stereo sources. If you're not using any surround back speakers, these settings apply to Dolby Pro Logic II, not Dolby Pro Logic IIx.

#### **Panorama**

#### ▶On:

Panorama function on.

#### Off:

Panorama function off.

With this setting, you can broaden the width of the front stereo image when using the Dolby Pro Logic IIx Music listening mode.

#### **Dimension**

## $\rightarrow$ -3 to $\underline{0}$ to +3

With this setting, you can move the sound field forward or backward when using the Dolby Pro Logic IIx Music listening mode. Higher settings move the sound field backward. Lower settings move it forward.

If the stereo image feels too wide, or there's too much surround sound, move the sound field forward to improve the balance. Conversely, if the stereo image feels like it's in mono, or there's not enough surround sound, move it backward.

#### **Center Width**

#### ▶ 0 to 3 to 7

With this setting, you can adjust the width of the sound from the center speaker when using the Dolby Pro Logic IIx Music listening mode. Normally, if you're using a center speaker, the center channel sound is output by only the center speaker. (If you're not using a center speaker, the center channel sound will be distributed to the front left and right speakers to create a phantom center). This setting controls the front left, right, and center mix, allowing you to adjust the weight of the center channel sound.

## ■ PLIIz Height Gain

The Height Gain Control in Dolby Pro Logic IIz enables the listener to select how much gain is applied to the front high speakers. There are three settings, "Low", "Mid" and "High", and the front high speakers are accentuated in that order. While "Mid" is the default listening setting, the listener may adjust the Height Gain Control to their personal preference.

#### Low:

Low PLIIz Height Gain becomes active.

## ▶ Mid:

Medium PLIIz Height Gain becomes active.

#### ▶ High

High PLIIz Height Gain becomes active.

## Note

 If the "Front High" settings is set to "None" (→ 40), this setting cannot be selected.

## **■** Dolby EX

This setting determines how Dolby EX encoded signals are handled. This setting is unavailable if no surround back speakers are connected. This setting is effective with Dolby Digital, Dolby Digital Plus and Dolby TrueHD only.

#### **Dolby EX**

#### Auto:

If the source signal contains a Dolby EX flag, the Dolby EX listening mode is used.

#### ▶ Manual:

You can select any available listening mode.

#### Note

- If the "Surr Back" setting is set to "None" (→ 41), this setting cannot be selected.
- If the "Front High" setting is enabled (→ 40), this setting is fixed at "Manual".

#### **DTS**

#### ■ Neo:6 Music

#### **Center Image**

## ▶ 0 to <u>2</u> to 5

The DTS Neo:6 Music listening mode creates 6-channel surround sound from 2-channel stereo sources. With this setting, you can specify by how much the front left and right channel output is attenuated in order to create the center channel.

Setting a value "0" in the middle is set to hear a sound. Sound is spread in left and right (the outside) so that the set value is made big. Please adjust by liking.

#### **Theater-Dimensional**

## **■ Listening Angle**

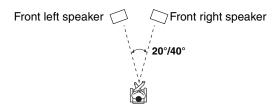
#### **▶** Wide:

Select if the listening angle is 40 degrees.

#### Narrow:

Select if the listening angle is 20 degrees.

With this setting, you can optimize the Theater-Dimensional listening mode by specifying the angle of the front left and right speakers relative to the listening position. Ideally, the front left and right speakers should be equidistant from the listening position and at an angle close to one of the two available settings.



## Source Setup

Items can be set individually for each input selector.

#### **Preparation**

Press the input selector buttons to select an input source.

Main menu

**Source Setup** 

## **Audyssey**

When Audyssey 2EQ® Room Correction and Speaker Setup is complete, the "Equalizer" setting (→ 42) will be set to "Audyssey" and the "Dynamic EQ" will be set to "On".

## **■** Dynamic EQ

#### Off:

Audyssey Dynamic EQ® off.

#### On:

Audyssey Dynamic EQ on.

The **Dynamic EQ** indicator will light (→ **9**).

With Audyssey Dynamic EQ, you can enjoy great sound even when listening at low volume levels. Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. It does so by selecting the correct frequency response and surround volume levels moment-by-moment so that the content sounds the way it was created at any volume level — not just at reference level.

#### Note

 If Direct listening mode is selected, this setting cannot be selected

#### **■** Reference Level

## Audyssey Dynamic EQ Reference Level Offset

#### ▶ 0dB:

It should be used when listening to movies.

#### ▶ 5dB:

Select this setting for content that has a very wide dynamic range, such as classical music.

#### ▶ 10dB:

Select this setting for jazz or other music that has a wider dynamic range. This setting should also be selected for TV content as that is usually mixed at 10 dB below film reference.

#### ▶ 15dB:

Select this setting for pop/rock music or other program material that is mixed at very high listening levels and has a compressed dynamic range.

Movies are mixed in rooms calibrated for film reference. To achieve the same reference level in a home theater system each speaker level must be adjusted so that -30 dBFS band-limited (500 Hz to 2000 Hz) pink noise produces 75 dB sound pressure level at the listening position. A home theater system automatically calibrated by Audyssey 2EQ will play at reference level when the master volume control is set to the 0 dB position. At that level you can hear the mix as the mixers heard it.

Audyssey Dynamic EQ is referenced to the standard film mix level. It makes adjustments to maintain the reference response and surround envelopment when the volume is turned down from 0 dB. However, film reference level is not always used in music or other non-film content. Audyssey Dynamic EQ Reference Level Offset provides three offsets from the film level reference (5 dB, 10 dB, and 15 dB) that can be selected when the mix level of the content is not within the standard.

#### Note

 If "Dynamic EQ" setting is set to "Off", this setting cannot be selected.

#### **■ Dynamic Volume**

#### Off:

Audyssey Dynamic Volume® off.

#### Light:

Light Compression Mode becomes active.

#### **▶** Medium:

Medium Compression Mode becomes active.

#### **▶** Heavy

Heavy Compression Mode becomes active. This setting affects volume the most, causing all sounds to be of equal loudness.

## Note

- Even if you have selected other than "Audyssey" in "Equalizer" setting after performing Audyssey 2EQ Room Correction and Speaker Setup, selecting "On" in the "Dynamic EQ" will change the "Equalizer" setting to "Audyssey" (→ 42).
- When "Dynamic Volume" is set to effective, "Equalizer" setting is set to "Audyssey" (→ 42) and "Dynamic EQ" is set to "On". When "Dynamic EQ" is set to "Off",
- "Dynamic Volume" becomes "Off" automatically.
- When "Dynamic Volume" is set to effective, the Dynamic Vol indicator will light (→ 9).
- If Direct listening mode is selected, this setting cannot be selected.

Audyssey 2EQ then removes the distortion caused by room acoustics by capturing room acoustical problems over the listening area in both the frequency and time domain. The result is clear, well-balanced sound for everyone. Enabling Audyssey 2EQ allows you to also use Audyssey Dynamic EQ, which maintains the proper octave-to-octave balance at any volume level.

Before using this function, connect and position all of your speakers.

#### **About Audyssey Dynamic EQ**

Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Dynamic EQ selects the correct frequency response and surround levels moment-by-moment at any user-selected volume setting. The result is bass response, tonal balance, and surround impression that remain constant despite changes in volume. Dynamic EQ combines information from incoming source levels with actual output sound levels in the room, a prerequisite for delivering a loudness correction solution.

Audyssey Dynamic EQ works in tandem with Audyssey 2EQ to provide well-balanced sound for every listener at any volume level.

#### About Audyssey Dynamic Volume®

Audyssey Dynamic Volume solves the problem of large variations in volume level between television programs, commercials, and between the soft and loud passages of movies. Dynamic Volume looks at the preferred volume setting by the user and then monitors how the volume of program material is being perceived by listeners in real time to decide whether an adjustment is needed. Whenever necessary, Dynamic Volume makes the necessary rapid or gradual adjustments to maintain the desired playback volume level while optimizing the dynamic range. Audyssey Dynamic EQ® is integrated into Dynamic Volume so that as the playback volume is adjusted automatically, the perceived bass response, tonal balance, surround impression, and dialog clarity remain the same whether watching movies, flipping between television channels, or changing from stereo to surround sound content.

#### IntelliVolume

#### ■ IntelliVolume

 $\blacktriangleright$  -12dB to 0dB to +12dB in 1 dB steps.

With IntelliVolume, you can set the input level for each input selector individually. This is useful if one of your source components is louder or quieter than the others.

Use  $\triangleleft / \triangleright$  to set the level.

If a component is noticeably louder than the others, use ◀ to reduce its input level. If it's noticeably quieter, use ► to increase its input level.

## A/V Sync

#### ■ A/V Sync

**▶ 0ms** to **200ms** in 10 ms steps.

When using your DVD player's progressive scanning function, you may find that the picture and sound are out of sync. With the A/V Sync setting, you can correct this by applying a delay to the audio signal.

To view the TV picture while setting the delay, press **ENTER**.

To return to the previous screen, press **RETURN**.

If HDMI Lip Sync is enabled (→ **49**) and your TV or display supports HDMI Lip Sync, the displayed delay time will be the summation of the A/V Sync delay time and the HDMI Lip Sync delay time. The HDMI Lip Sync delay time is displayed underneath in parentheses.

#### Note

• A/V Sync is disabled when the Direct listening mode is used with an analog input source.

#### Name Edit

You can enter a custom name for each individual input selector (excluding **TUNER**) and radio preset for easy identification. When entered, the custom name will appear on the display.

The custom name is edited using the character input screen.

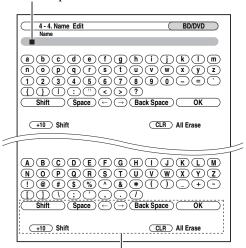
#### ■ Name

**1** Use **△**/**▼**/**⋖**/**►** to select a character, and then press ENTER.

Repeat this step to enter up to 10 characters.

When you've finished, to store a name, be sure to use **△/▼/ / >** to select "OK", and then press ENTER. Otherwise it will not be saved.

Name input area



## Shift\*1:

Switches the displayed character.

#### Space:

Enters a space character.

 $\leftarrow$  (Left)/  $\rightarrow$  (Right):

Selected when the cursor is moved within the Name input area.

#### Back Space\*2:

"Back Space" moves the cursor backward one character space. In addition, "Back Space" deletes the character to the left of the cursor.

#### OK:

Selects when the entry is complete.

#### Tip

- \*1 You can also be performed on the remote controller by using +10.
- \*2 Press CLR on the remote controller, you can delete all characters in the input.

#### To correct a character:

- Use **△/**▼/**⋖/**► to select "←"(Left) or "→"(Right), and then press ENTER.
- **?** Press ENTER several times to select the incorrect character (The cursor moves one letter each time ENTER is pressed).
- Use  $\Delta/\nabla/\ll$  to select the correct character, and then press ENTER.

#### Note

• To name a radio preset, use TUNER to select AM or FM, and then select the preset  $(\rightarrow 31)$ .

To restore a custom name to the default, erase the custom name by entering an empty white space for each letter.

## **Picture Adjust**

Using "Picture Adjust", you can adjust the picture quality and reduce any noise appearing on the screen. To view the TV picture while setting, press **ENTER**. To

return to the previous screen, press **RETURN**.

#### **■** Game Mode

#### Off:

Game Mode off.

#### On:

Game Mode on.

If video signal delay occurs during playback on a video component (i.e. game console), select the corresponding input source and set the "Game Mode" setting to "On". The delay will decrease but in return the picture quality will become poor.

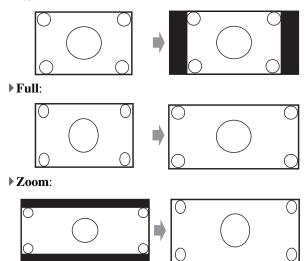
#### ■ Wide Mode\*1\*2

This setting determines the aspect ratio.

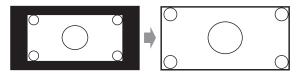
#### Note

• When the "Game Mode" is set to "On", this setting is fixed at "Full".

#### **4:3**:



#### **▶ Wide Zoom:**



#### ▶ Auto:

According to the input signals and monitor output setting, the AV receiver automatically selects the "4:3", "Full", "Zoom" or "Wide Zoom". For the monitor output setting  $(\rightarrow 39)$ .

#### ■ Picture Mode\*1\*2

#### Thru:

The following settings are set to the default values: "Film Mode", "Edge Enhancement", "Noise Reduction", "Brightness", "Contrast", "Hue" and "Saturation"

#### **Custom:**

You can set the following settings as you like: "Film Mode", "Edge Enhancement", "Noise Reduction", "Brightness", "Contrast", "Hue" and "Saturation"

#### **▶** Cinema:

Selected when the picture source is movie film, etc.

#### ▶ Game:

Select to use in connecting a game console.

With "Picture Mode", you can change the following settings to be suitable for the movie or game screen by one operation; "Film Mode", "Edge Enhancement", "Noise Reduction", "Brightness", "Contrast", "Hue" or "Saturation".

#### ■ Film Mode\*2

#### **▶ Video:**

Does not process in either "3:2" or "2:2".

Adjusts to the picture source, automatically selecting "Film Mode".

#### **3:2**:

Selected when the picture source is movie film, etc.

Selected when the picture source is computer graphics, animation, etc.

The AV receiver will adjust to the picture source, processing in either "3:2" or "2:2" (Film Mode). It automatically converts the source to the appropriate progressive signal and reproduces the natural quality of the original picture.

When the "Film Mode" setting is set to "Auto", the AV receiver automatically detects the picture source and in either "3:2" or "2:2". However, there may be times when you will get a better picture by setting "Film Mode" yourself.

#### Note

• If the "Game Mode" setting is set to "On" (→ 46), this setting is fixed at "Video".

## ■ Edge Enhancement\*2

▶ 0 to +10

With this setting you can adjust the sharpness of edges in the picture. "0" is the softest. "+10" is the sharpest.

#### ■ Noise Reduction\*2

Off:

Noise reduction off.

Low:

Low noise reduction.

▶ Mid:

Medium noise reduction.

▶ High:

High noise reduction.

With this setting, you can reduce noise appearing on the screen.

#### Note

If the "Game Mode" setting is set to "On" (→ 46), this setting is fixed at "Off".

#### ■ Brightness\*1\*2

▶-50 to 0 to +50

With this setting you can adjust the picture brightness. "-50" is the darkest. "+50" is the brightest.

#### ■ Contrast\*1\*2

▶-50 to 0 to +50

With this setting you can adjust contrast. "-50" is the least. "+50" is the greatest.

#### ■ Hue\*1\*2

▶-20 to 0 to +20

With this setting you can adjust the red/green balance. "-20" is the strongest green. "+20" is the strongest red.

## ■ Saturation\*1\*2

▶-50 to 0 to +50

With this setting you can adjust saturation. "-50" is the weakest color. "+50" is the strongest color.

#### Tip

- \*1 This procedure can also be performed on the remote controller by using the Video menu (→ 26).
- \*2 Press **CLR** if you want to reset to the default value.

## Listening Mode Preset

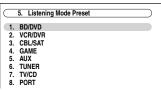
You can assign a default listening mode to each input source that will be selected automatically when you select each input source. For example, you can set the default listening mode to be used with Dolby Digital input signals. You can select other listening modes during playback, but the mode specified here will be resumed once the AV receiver has been set to Standby.

#### Main menu

#### **Listening Mode Preset**

**1** Use **△/▼** to select the input source that you want to set, and then press ENTER.

The following menu appears.



For **TUNER** input selector only "**Analog**" will be available.

#### Note

- If you connect an input component (such as UP-A1 series Dock that seated iPod) to the **UNIVERSAL PORT** jack, you can assign only listening modes for the analog sound to "**PORT**" selector.
- Use ▲/▼ to select the signal format that you want to set, and then use ◄/► to select a listening mode. Only listening modes that can be used with each input signal format can be selected (→ 34 to 37). The "Last Valid" option means that the listening mode selected last will be used.

## ■ Analog / PCM

With this setting, you can specify the listening mode to be used when an analog (CD, TV, LD, VHS, MD, turntable, radio, cassette, cable, satellite, etc.) or PCM digital (CD, DVD, etc.) audio signal is played.

#### ■ Mono/Multiplex Source

With this setting, you can specify the listening mode to be used when a mono digital audio signal is played (DVD, etc.).

#### ■ 2ch Source

With this setting, you can specify the default listening mode for 2-channel (2/0) stereo sources in a digital format, such as Dolby Digital or DTS.

#### ■ Dolby D/Dolby D +/TrueHD

With this setting, you can specify the listening mode to be used when a Dolby Digital or Dolby Digital Plus format digital audio signal is played (DVD, etc.). Specifies the default listening mode for Dolby TrueHD sources, such as Blu-ray or HD DVD (input via HDMI).

## **■ DTS/DTS-ES/DTS-HD**

With this setting, you can specify the listening mode to be used when a DTS or DTS-HD High Resolution Audio format digital audio signal is played (DVD, LD, CD, etc.). Specifies the default listening mode for DTS-HD Master Audio sources, such as Blu-ray or HD DVD (input via HDMI).

#### **■** Other Multich Source

With this setting, you can specify the default listening mode for multichannel PCM sources from **HDMI IN** such as DVD-Audio, and DSD multichannel sources such as Super Audio CD.

## Miscellaneous

Main menu

Miscellaneous

## **Volume Setup**

#### **■** Maximum Volume

▶ Off, 30 to 79

With this setting, you can limit the maximum volume

To disable this setting, select "Off".

#### **■** Power On Volume

#### Last, Min, 1 to 79 or Max

With this preference, you can specify the volume setting to be used each time the AV receiver is turned on.

To use the same volume level that was used when the AV receiver was turned off, select "Last".

The "**Power On Volume**" cannot be set higher than the "**Maximum Volume**" setting.

## ■ Headphone Level

#### ▶ -12dB to 0dB to +12dB

With this preference, you can specify the headphone volume relative to the main volume. This is useful if there's a volume difference between your speakers and your headphones.

## **OSD Setup**

#### ■ On Screen Display

This preference determines whether operation details are displayed on-screen when an AV receiver function is adjusted.

**▶** <u>On</u>:

Displayed.

Off:

Not displayed.

Even when "On" is selected, operation details may not be output if the input source is connected to an **HDMI IN**.

## ■ Language

▶ <u>English</u>, Deutsch, Français, Español, Italiano, Nederlands, Svenska, 中文

This setting determines the language used for the onscreen setup menus.

## Hardware Setup

Main menu

**Hardware Setup** 

#### Remote ID

#### ■ Remote ID

▶ 1, 2, or 3

When several Onkyo components are used in the same room, their remote ID codes may overlap. To differentiate the AV receiver from the other components, you can change its remote ID from "1", to "2" or "3".

#### Note

• If you do change the AV receiver's remote ID, be sure to change the remote controller to the same ID (see below), otherwise, you won't be able to control it with the remote controller.

#### Changing the Remote Controller's ID

**1** While holding down RECEIVER, press and hold down SETUP until the remote indicator lights (about 3 seconds) (→ 38).

**2** Use the number buttons to enter ID 1, 2, or 3. The remote indicator flashes twice.

#### **Tuner**

For FM/AM tuning to work properly, you must specify the FM/AM frequency step used in your area. Note that when this setting is changed, all radio presets will be deleted.

#### **■ FM/AM Frequency Step**

#### ▶ 200k/10kHz:

Select if 200 k/10 kHz steps are used in your area.

#### ▶ 50k/9kHz:

Select if 50 k/9 kHz steps are used in your area.

#### ■ Audio TV Out

Off:

The audio is not output from the HDMI output.

On:

The audio is output from the HDMI output.

This preference determines whether the incoming audio signal is output from the **HDMI OUT**. You may want to turn this preference on if your TV is connected to the **HDMI OUT** and you want to listen to the audio from a connected component through your TV's speakers. Normally, this should be set to "Off".

#### Note

- Listening mode cannot be changed when this setting is set to "On" and the input source is not HDMI.
- If "On" is selected and the audio can be output from the TV, the AV receiver will output no sound through its speakers. In this case, "TV Sp On" appears on the display.
- When "TV Control" is set to "On" (→ 50), this setting is fixed to "Auto".
- With some TVs and input signals, no sound may be output even when this setting is set to "On".
- When the "Audio TV Out" setting is set to "On", or "TV Control" is set to "On" (→ 50) and you're listening through your TV's speakers (→ 19), if you turn up the AV receiver's volume control, the sound will be output by the AV receiver's front left and right speakers. To stop the AV receiver's speakers producing sound, change the settings, change your TV's settings, or turn down the AV receiver's volume.

## ■ Lip Sync

Disable:

HDMI lip sync disabled.

**▶** Enable:

HDMI lip sync enabled.

The AV receiver can be set to automatically correct any delay between the video and the audio, based on the data from the connected monitor.

#### Note

- This function works only if your HDMI-compatible TV supports HDMI Lip Sync.
- You can check the amount of delay being applied by the HDMI Lip Sync function on the A/V Sync screen.

## **■ HDMI Control (RIHD)**

Off:

RIFID disabled.

On:

RIFID enabled.

This function allows  $\bigcirc$  -compatible components connected via HDMI to be controlled with the AV receiver ( $\rightarrow$  **72** to **73**).

#### Note

• When set to "On" and close the menu, the name of connected PUFUD-compatible components and "RIHD On" are displayed on the AV receiver.

"Search..." → "(name)" → "RIHD On"

When the AV receiver cannot receive the name of the component, it is displayed as "Player\*" or "Recorder\*", etc ("\*" means the number of two or more component).

When set to "Off" and close the menu, "RIHD Off" are displayed on the AV receiver.

"Disconnect" → "RIHD Off"

- When an RIFID-compatible component is connected to the AV receiver via the HDMI cable, the name of the connected component is displayed on the AV receiver display. For example, while you are watching TV broadcasting, if you operate a Blu-ray Disc/DVD player (being powered on) by the remote control of the AV receiver, the name of the Blu-ray Disc/DVD player is displayed on the AV receiver.
- Set to "Off" when a connected piece of equipment is not compatible or it is unclear whether the equipment is compatible or not
- If movement is unnatural when set to "On", change the setting to "Off"
- Refer to the connected component's instruction manual for details.
- When the source equipment is connected with the RI connection, it may malfunction if "HDMI Control (RIHD)" is set to "On".

#### ■ Audio Return Channel

Off:

Select "**Off**" if you don't want to use audio return channel (ARC) function.

▶ Auto:

The audio signal from your TV tuner can be sent to the **HDMI OUT** of the AV receiver.

Audio return channel (ARC) function enables an HDMI (Audio Return Channel) capable TV to send the audio stream to the **HDMI OUT** of the AV receiver. To use this function, you must select the **TV/CD** input selector and your TV must support ARC function.

#### Note

- The "Audio Return Channel" setting can be set only when the "HDMI Control (RIHD)" setting is set to "On".
- This setting is set to "Auto" automatically when the "HDMI Control (RIHD)" is set to "On" first time.

## ■ Power Control

Off:

Power Control disabled.

Dn:

Power Control enabled.

To link the power functions of **FIFID**-compatible components connected via HDMI, select "On".

This setting is set to "On" automatically when the "HDMI Control (RIHD)" is set to "On" first time.

#### Note

- The "Power Control" setting can be set only when the "HDMI Control (RIHD)" setting is set to "On".
- HDMI power control only works with RIHD-compatible components that support it and may not work properly with some components due to their settings or compatibility.
- When set to "On", power consumption will increase.
- When set to "On", regardless of whether the AV receiver is On or in Standby, both audio and video stream from an HDMI input will be output to the TV or other components via HDMI connection (HDMI pass through function). When the HDMI pass through function activates in standby mode, HDMI THRU indicator will light.
- The power consumption during standby mode will increase during the HDMI pass through function; however if your TV supports CEC (Consumer Electronics Control), the power consumption can be saved in the following cases:
- 1. The TV is in standby mode.
- 2. You are watching a TV program.
- Refer to the connected component's instruction manual for details.

#### **■ TV Control**

Off:

TV Control disabled.

On:

TV Control enabled.

Set to "On" when you want to control the AV receiver from an **RIFID**-compatible TV that is connected to HDMI.

#### Note

- Do not assign the component connected with the HDMI input to the TV/CD selector when you set "TV Control" setting to "On".
   Otherwise, appropriate CEC (Consumer Electronics Control) operation is not guaranteed.
- Set to "Off" when the TV is not compatible or when it is unclear whether the TV is compatible or not.
- The "TV Control" setting can be set only when the "HDMI Control (RIHD)" (→ 49) and "Power Control" (→ 49) settings are both set to "On".
- Refer to the connected component's instruction manual for details.

After changing the settings of the "HDMI Control (RIHD)", "Audio Return Channel", "Power Control", or "TV Control", turn off the power to all connected pieces of equipment and then turn them on again. Refer to the user's manuals for all connected pieces of equipment.

## Lock Setup

With this preference, you can protect your settings by locking the setup menus.

#### Main menu

**Lock Setup** 

#### ■ Setup

▶ Locked:

Setup menus locked.

**▶** Unlocked:

Setup menus not locked.

When the setup menus are locked, you cannot change any setting.

## Using the Audio Settings

You can change various audio settings by pressing **AUDIO**  $(\Rightarrow 26)$ .

**1** Press RECEIVER followed by AUDIO.

**2** Use ▲/▼ to select "Audio", and then use ▲/▼/◄/► to make the desired selection.

#### Note

- · These settings are disabled when:
- a pair of headphones is connected, or
- the "Audio TV Out" setting is set to "On" (→ 49) and an input selector other than HDMI is selected.

## **Tone Control Settings**

You can adjust the bass and treble for the front speakers, except when the Direct listening mode is selected.

#### Bass

▶-10dB to <u>0dB</u> to +10dB in 2 dB steps. You can boost or cut low-frequency sounds.

## **■** Treble

▶-10dB to <u>0dB</u> to +10dB in 2 dB steps. You can boost or cut high-frequency sounds.

#### Operating on the AV receiver

- **1** Press **TONE** on the AV receiver repeatedly to select either "Bass" or "Treble".
- **2** Use TONE LEVEL +/- on the AV receiver to adjust.

## **Speaker Levels**

You can adjust the volume of each speaker while listening to an input source.

These temporary adjustments are cancelled when the AV receiver is set to Standby. To save the setting you made here, go to "Level Calibration" (→ 42) before setting the AV receiver to Standby.

#### **■** Subwoofer Level

▶-15dB to 0dB to +12dB in 1 dB steps.

#### **■** Center Level

▶-12dB to 0dB to +12dB in 1 dB steps.

#### Note

- You cannot use this function while the AV receiver is muted.
- Speakers that are set to "No" or "None" in the "Speaker Configuration" (→ 41) cannot be adjusted.

## **Audyssey Settings**

#### **■** Dynamic EQ

See "Dynamic EQ" in "Source Setup" (→ 44).

#### **■** Dynamic Volume

See "Dynamic Volume" in "Source Setup" (→ 44).

## **Late Night**

With the Late Night function, you can reduce the dynamic range of Dolby Digital material so that you can still hear quiet parts even when listening at low volume levels—ideal for watching movies late at night when you don't want to disturb anyone.

#### ■ Late Night

For **Dolby Digital** and **Dolby Digital Plus** sources, the options are:

Off:

Late Night function off.

Low

Small reduction in dynamic range.

High:

Large reduction in dynamic range.

For **Dolby TrueHD** sources, the options are:

▶ Auto:

The Late Night function is set to "On" or "Off" automatically.

Off:

Late Night function off.

On:

Late Night function on.

#### Note

- The effect of the Late Night function depends on the material that you are playing and the intention of the original sound designer, and with some material there will be little or no effect when you select the different options.
- The Late Night function can be used only when the input source is Dolby Digital, Dolby Digital Plus, or Dolby TrueHD.
- The Late Night function is set to "Off" when the AV receiver is set to Standby. For Dolby TrueHD sources, it will be set to "Auto".

## **Music Optimizer**

The Music Optimizer function enhances the sound quality of compressed music files. Use it with music files that use "lossy" compression, such as MP3.

## **■ Music Optimizer**

Off:

Music Optimizer off.

▶On:

Music Optimizer on. The **M.Opt** indicator will light  $(\Rightarrow 9)$ .

#### Note

- The Music Optimizer function only works with PCM digital audio input signals with a sampling rate below 48 kHz and analog audio input signals. The Music Optimizer is disabled when the Direct listening mode is selected.
- The setting is stored individually for each input selector.

#### **Cinema Filter**

With the Cinema Filter, you can soften overly bright movie soundtracks, which are typically mixed for reproduction in a movie theater.

Cinema Filter can be used with the following listening modes: Dolby Digital, Dolby Digital EX, Dolby Digital Plus, Dolby TrueHD, Dolby Pro Logic IIx Movie, Dolby Pro Logic II Movie, Dolby Pro Logic IIz Height, Multichannel, DTS, DTS-ES, DTS Neo:6 Cinema, DTS 96/24, Neo:6, DTS-HD High Resolution Audio, DTS-HD Master Audio and DTS Express.

#### **■ Cinema Filter**

Off:

Cinema Filter off.

Dn:

Cinema Filter on.

#### Note

 The Cinema Filter may not work when used with certain input sources.

## **Audio Selector**

You can set priorities of audio output when there are both digital and analog inputs.

#### ■ Audio Selector

#### ARC:

The audio signal from your TV tuner can be sent to the **HDMI OUT** of the AV receiver.\*1

With this selection the TV's audio can be automatically selected as a priority among other assignments.

#### ▶ HDMI:

This can be selected when **HDMI IN** has been assigned as an input source. If both HDMI (**HDMI IN**) and digital audio inputs (**COAXIAL IN** or **OPTICAL IN**) have been assigned, HDMI input is automatically selected as a priority.

#### COAX:

This can be selected when **COAXIAL IN** has been assigned as an input source. If both coaxial and HDMI inputs have been assigned, coaxial input is automatically selected as a priority.

#### POPT:

This can be selected when **OPTICAL IN** has been assigned as an input source. If both optical and HDMI inputs have been assigned, optical input is automatically selected as a priority.

## ▶ Analog:

The AV receiver always outputs analog signals.

#### Note

- The setting is stored individually for each input selector.
- This setting can be made only for the input source that is assigned as HDMI IN, COAXIAL IN, or OPTICAL IN.
- \*1 You can select "ARC" if you select the TV/CD input selector. But you cannot select it if you've selected "Off" in the "Audio Return Channel" setting (→ 49).

# Setting the Incoming Digital Signal (Fixed Mode)

By pressing **ENTER** while selecting "**HDMI**", "**COAX**", "**OPT**" in the "**Audio Selector**", you can specify the input signal in the Fixed Mode. Pressing **ENTER** again allows you to return to the "**Audio Selector**" setting.

Normally, the AV receiver detects the signal format automatically. However, if you experience either of the following issues when playing PCM or DTS material, you can manually set the signal format to PCM or DTS.

If the beginnings of tracks from a PCM source are cut off, try setting the format to PCM.

If noise is produced when fast forwarding or reversing a DTS CD, try setting the format to DTS.

#### Auto

The format is detected automatically. If no digital input signal is present, the corresponding analog input is used instead.

#### **PCM**:

Only 2-channel PCM format input signals will be heard. If the input signal is not PCM, the **PCM** indicator will flash and noise may also be produced.

#### DTS

Only DTS (but not DTS-HD) format input signals will be heard. If the input signal is not DTS, the **DTS** indicator will flash and there will be no sound.

- The setting is stored individually for each input selector.
- The setting will be reset to "Auto" when you change the setting in the "Audio Selector" (→ 52).

## Zone 2

In addition to your main listening room, you can also enjoy playback in the other room, or as we call Zone 2. And, you can select a different source for each room.

## Connecting Zone 2

There are two ways you can connect Zone 2 speakers:

- 1. Connect them directly to the AV receiver.
- 2. Connect them to an amp in Zone 2.

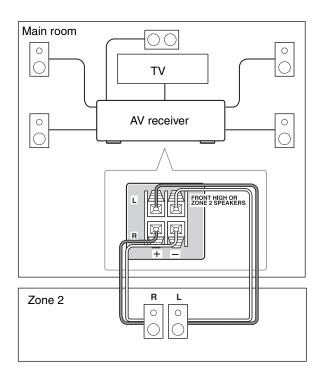
# **Connecting Your Zone 2 Speakers Directly to the AV receiver**

This setup allows 5.1-channel playback in your main room and 2-channel stereo playback in Zone 2, with a different source in each room. This is called Powered Zone 2, as the Zone 2 speakers are powered by the AV receiver. Note that when Powered Zone 2 is turned off, you can enjoy 7.1-channel playback in your main room.

To use this setup, you must set the "Front High/Zone2" setting to "Zone2" ( $\rightarrow$  54).

#### Hookup

 Connect your Zone 2 speakers to the AV receiver's FRONT HIGH OR ZONE 2 SPEAKERS L/R terminals.



## Note

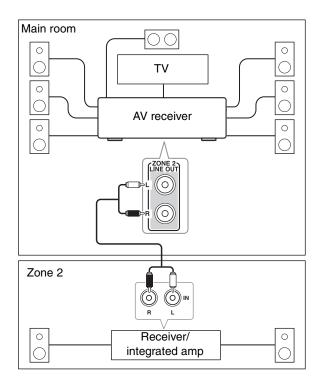
 With this setup, the Zone 2 volume is controlled by the AV receiver.

# Connecting Your Zone 2 Speakers to an Amp in Zone 2

This setup allows 7.1-channel playback in your main listening room and 2-channel stereo playback in Zone 2, with a different source in each room.

#### Hookup

- Use an RCA audio cable to connect the AV receiver's ZONE 2 LINE OUT L/R jacks to an analog audio input on your Zone 2 amp.
- Connect your Zone 2 speakers to the speaker terminals on your Zone 2 amp.



#### Note

• The Zone 2 volume must be set on the Zone 2 amp.

## Setting the Powered Zone 2

If you've connected your Zone 2 speakers to the AV receiver, as explained in "Connecting Your Zone 2 Speakers Directly to the AV receiver" (→ **53**), you must set the "**Front High/Zone2**" setting to "**Zone2**".

#### Main menu

#### **Speaker Setup**

- **1** In the "Speaker Setup" menu, select "Speaker Settings", and then press ENTER.
- **2** Use **△/▼** to select "Front High/Zone2" and **◄/►** to select "Zone2".

#### ▶ Zone2:

Zone 2 speakers can be used (Powered Zone 2 enabled).

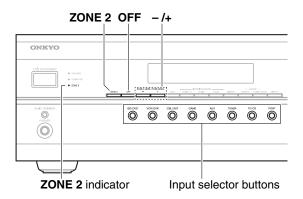
#### Note

- When "Zone2" is selected and Zone 2 turned on, the Zone 2 speakers connected to the FRONT HIGH OR ZONE 2
   SPEAKERS terminals output sound, but the surround back or front high speakers connected to the SURR BACK OR FRONT HIGH SPEAKERS terminals do not. When "Zone2" is selected and Zone 2 turned off, the surround back or front high speakers output sound as normal.
- When the "Front High/Zone2" setting is set to "Zone2" and the input selector of Zone 2 is selected, power consumption on standby mode slightly increases.

## Using Zone 2

This section explains how to turn Zone 2 on and off, how to select an input source for Zone 2, and how to adjust the volume for Zone 2.

## **Controlling Zone 2 from the AV receiver**



To turn on Zone 2 and select an input source, press ZONE 2 followed by an input selector button within 8 seconds.

Zone 2 turns on, the **ZONE 2** indicator lights.

To select AM or FM, press the **TUNER** input selector button repeatedly.

To select the same source as that of the main room, press **ZONE 2** repeatedly until "**Z2 Selector: Source**" appears on the display.

#### Note

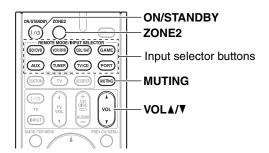
• You cannot select different AM or FM radio stations for your main room and Zone 2. The same FM/AM radio station will be heard in each room.

## 2

To turn off Zone 2, press OFF.

- While Powered Zone 2 is being used, listening modes that require surround back and front high speakers (6.1/7.1), such as Dolby Digital EX, DTS-ES, and Dolby Pro Logic IIz Height are unavailable.
- When the "Front High/Zone2" setting is set to "Zone2" and the input selector of Zone 2 is selected, power consumption on standby mode slightly increases.

# **Controlling Zone 2 with the Remote Controller**



- **1** Press ZONE2 and then press ON/STANDBY. Zone 2 turns on, the ZONE 2 indicator lights.
- **2** To select an input source for Zone 2, press **ZONE2**, followed by an input selector buttons. To select AM or FM, press the **TUNER** input selector repeatedly.

#### Note

- You cannot select different AM or FM radio stations for your main room and Zone 2. The same FM/AM radio station will be heard in each room.
- **3** To turn off Zone 2, press ZONE2 followed by ON/STANDBY.

#### Note

 To control Zone 2, you must press the remote controller's ZONE2 first.

## Adjusting the Volume for Zone 2

- Operating with the remote controller
- **1** Press ZONE2.
- 2 Use VOL **△/**▼ to adjust the volume.
- **■** Operating on the AV receiver
- **1** Press **ZONE** 2 (the ZONE 2 indicator and Zone 2 selector on the display flashes).
- 2 Use -/+ within 8 seconds to adjust the volume.

If your Zone 2 speakers are connected to a receiver or integrated amp in Zone 2, use its volume control to adjust the volume.

## **Muting Zone 2**

Operating with the remote controller

Press ZONE2 followed by MUTING.

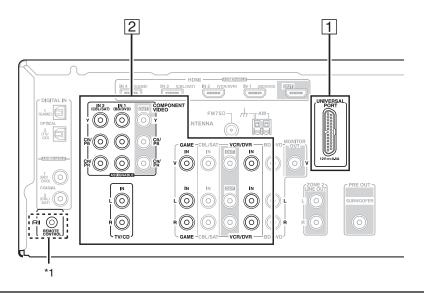
#### Tip

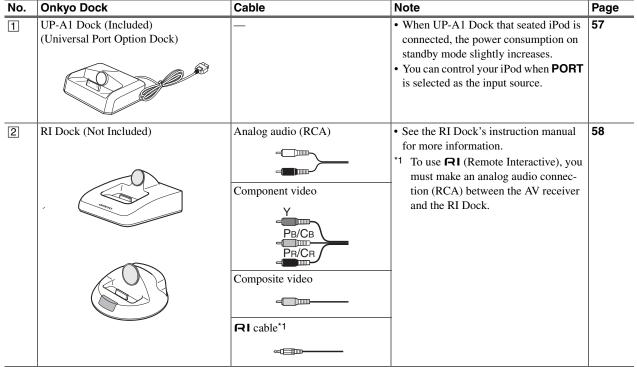
• To unmute, press **ZONE2** followed by **MUTING** again.

- Only analog input sources are output by the ZONE 2 LINE
   OUT and FRONT HIGH OR ZONE 2 SPEAKERS L/R terminals. Digital input sources are not output. If no sound is heard
   when an input source is selected, check if it's connected to an
   analog input.
- While Powered Zone 2 is being used, listening modes that require surround back and front high speakers (6.1/7.1), such as Dolby Digital EX, DTS-ES and Dolby Pro Logic IIz Height are unavailable.
- While Zone 2 is on, RI functions will not work.
- You cannot select different AM or FM radio stations for your main room and Zone 2. The same FM/AM radio station will be heard in each room. For example, if you have an FM station for the main room, that station will also be used in Zone 2.
- Zone 2 can also be unmuted by adjusting the volume.

## **Controlling iPod**

## Connecting an Onkyo Dock





Models sold are different depending on the region.

## Using the Onkyo Dock

For the latest information on the Onkyo Dock components, see the Onkyo web site at:

http://www.onkyo.com

Before using the Onkyo Dock components, update your iPod with the latest software, available from the Apple web site.

#### **UP-A1 Dock**

With the supplied UP-A1 Dock, you can easily play the music, photo, or movie stored on your Apple iPod through the AV receiver and enjoy great sound.

You can use the AV receiver's remote controller to operate your iPod.

#### **■** Compatible iPod models

Made for:

- iPod touch (1st and 2nd generation)
- iPod classic
- iPod (4th and 5th generation)
- iPod nano (1st, 2nd, 3rd, 4th and 5th generation)
- iPod mini
- All iPhone models

## ■ Putting Your iPod in the Dock

- 1. Turn on the AV receiver, and select the **PORT** selector.
- 2. Align your iPod with the Dock connector, and carefully place your iPod in the slot, as shown.

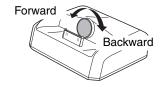


## Note

 Remove the case, if fitted, from your iPod before inserting it into the UP-A1.

#### ■ Adjusting the Adapter

The adapter needs to be adjusted to match your particular iPod. If there's a gap between the back of your iPod and the adapter, turn the adapter counterclockwise to close the gap. Turning the adapter counterclockwise moves it forward. Turning it clockwise moves it backward.



#### Note

- Make sure that the output level of the AV receiver is set to minimum
- To prevent damage to the dock connector, don't twist your iPod when inserting or removing it, and be careful not to knock over the dock while your iPod is inserted.
- Do not take off your iPod from the Dock when you play back the music, photo, or movie stored on your iPod.
- Don't use the UP-A1 with any other iPod accessories, such as FM transmitters and microphones, because they may cause a malfunction.

• It is recommended that you update your iPod software before using it with this unit. The updater for the iPod software is available at the Apple website.

#### ■ Basic Operation

The AV receiver may take several seconds to startup, so you might not hear the first few seconds of the first song.

#### **Auto Power On**

If you start iPod playback while the AV receiver is on Standby, the AV receiver will automatically turn on and select your iPod as the input source.

#### **Direct Change**

If you start iPod playback while listening to another input source, the AV receiver will automatically select your iPod as the input source.

## Using the AV receiver's Remote Controller

You can use the AV receiver's remote controller to control basic iPod functions ( $\rightarrow$  **58**).

#### ■ Operating Notes

- Functionality depends on your iPod model and generation.
- Before selecting a different input source, stop iPod playback to prevent the AV receiver from selecting the iPod input source by mistake.
- If any accessories are connected to your iPod, the AV receiver may not be able to select the input source properly.
- When connecting UP-A1 Dock to the radio tuner UP-HT1 with AUTO selected by the tuner's Mode Selector switch, you can switch the input source between UP-A1 Dock and the tuner, by pressing PORT repeatedly on the front panel.
- While your iPod is in the UP-A1 Dock, its volume control has no effect. If you adjust your iPod models volume control while it's in the UP-A1 Dock, make sure it's not set too high before you reconnect your headphones.
- The Auto Power On function will not work if you set your iPod in the UP-A1 Dock while it is playing.
- When Zone 2 is turned on, you can't use Auto Power On and Direct Change functions.

#### ■ Using Your iPod models Alarm Clock

You can use your iPod models Alarm Clock function to automatically turn on your iPod and the AV receiver at a specified time. The AV receiver's input source will automatically be set to the **PORT** selector.

- To use this function, your iPod must be in the UP-A1 Dock, and the UP-A1 Dock must be connected to the AV receiver.
- This function only works when the Standard mode is set to **On**.
- When you use this function, be sure to set the AV receiver's volume control to a suitable level.
- When Zone 2 is turned on, you can't use this function.
- You cannot use this function for sound effects on your iPod.

## ■ Charging Your iPod models Battery

The UP-A1 Dock charges your iPod models battery while your iPod is in the UP-A1 Dock and connected to the **UNIVERSAL PORT** jack on the AV receiver. While your iPod is seated in the UP-A1 Dock, its battery will be charged when the AV receiver is set to "On" or "Standby".

#### Note

 When UP-A1 Dock that seated iPod is connected, the power consumption on standby mode slightly increases.

## ■ Status Messages

#### PORT Reading

The AV receiver is checking the connection with the dock.

#### • PORT Not Support

The AV receiver do not support the connected dock.

#### • PORT UP-A1

UP-A1 Dock is connected.

#### Note

- The AV receiver displays the message "UP-A1" for several seconds after recognizing the UP-A1.
- When the status message is not displayed on the AV receiver's display, check the connection to your iPod.

#### **RI Dock**

#### RI Dock is sold separately.

For supported iPod models, see the instruction manual of the RI Dock.

With the RI Dock, you can easily play the music stored on your Apple iPod through the AV receiver and enjoy great sound, and watch iPod slideshows and videos on your TV. In addition, the onscreen display (OSD) allows you to view, navigate, and select your iPod model's contents on your TV, and with the supplied remote controller, you can control your iPod from the comfort of your sofa. You can even use the AV receiver's remote controller to operate your iPod.

#### Note

- Enter the appropriate remote control code before using the AV receiver's remote controller for the first time (→ 61).
- Connect the RI Dock to the AV receiver with an RI cable (→ **56**).
- Set the RI Dock's RI MODE switch to HDD or HDD/DOCK.
- Set the AV receiver's Input Display to "DOCK" ( $\Rightarrow$  27).

#### ■ System Function

## System On

When you turn on the AV receiver, the RI Dock and iPod turn on automatically. In addition, when the RI Dock and iPod are on, the AV receiver can be turned on by pressing **ON/STANDBY**.

## **Auto Power On**

If you press the remote controller's while the AV receiver is on Standby, the AV receiver will automatically turn on, select your iPod as the input source, and your iPod will start playback.

#### **Direct Change**

If you start iPod playback while listening to another input source, the AV receiver will automatically switch to the input to which the RI Dock is connected.

#### **Other Remote Controllers**

You can use the remote controller that came with the AV receiver to control other iPod functions. The available functionality depends on the AV receiver.

#### iPod Alarm

If you use the Alarm function on your iPod to start playback, the AV receiver will turn on at the specified time and select your iPod as the input source automatically.

#### Note

- Linked operations do not work with video playback or when the alarm is set to play a sound.
- If you use your iPod with any other accessories, iPod playback detection may not work.
- This function only works when the Standard mode is set to **On**.

## **■** Operating Notes

- Use the AV receiver's volume control to adjust the playback volume.
- While your iPod is inserted in the RI Dock, its volume control has no effect.
- If you do adjust the volume control on your iPod while it's inserted in the RI Dock, be careful that it's not set too loud before you reconnect your earphones.

## Controlling Your iPod

By pressing **REMOTE MODE** that's been programmed with the remote control code for your Dock, you can control your iPod in the Dock with the following buttons. See "Remote Control Codes for Onkyo Components Connected via  $\mathbf{RI}$ " for details on entering a remote control code ( $\rightarrow$  61).

See the Dock's instruction manual for more information.

## **■ UP-A1 Dock**

**PORT** is preprogrammed with the remote control code for controlling a Dock with Universal Port connector. You can control your iPod when **PORT** is selected as the input source.

#### Without the RI Control

You must enter a remote control code **82990** first (→ **61**).

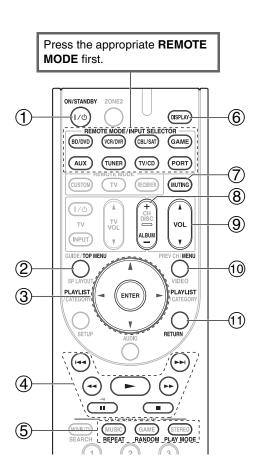
#### ■ RI Dock

- Set the RI Dock's RI MODE switch to HDD or HDD/ DOCK.
- **ON/STANDBY** may not work with a remote control code (without **RI**). In this case, make an **RI** connection and enter a remote control code **81993** (with **RI**).

#### With the RI Control

In this case, make an RI connection and enter a remote control code 81993 (with RI).

• Set the AV receiver's Input Display to "DOCK" (→ 27).



#### **✓**: Available buttons

$ egin{array}{c} $	Onkyo Dock					
Bu	ttons	UP-A1 Dock	RI Dock			
1	ON/STANDBY I/也		<b>✓</b> *1			
2	TOP MENU		<b>✓</b> *5			
3	<b>▲/▼/⋖/►ENTER</b>	~	~			
	PLAYLIST <b>◄/►</b>	<b>✓</b> *3	~			
4	<b>▶</b> , <b>II</b> , <b>■</b> , <b>◄◄</b> , <b>▶▶</b> ,	~	~			
	◄◄, ▶▶					
(5)	REPEAT	<b>'</b>	~			
	RANDOM	<b>'</b>	<b>'</b>			
	PLAY MODE	<b>✓</b> *4	<b>✓</b> *4			
6	DISPLAY*6	<b>✓</b> *2	<b>'</b>			
7	MUTING	<b>V</b>	<b>'</b>			
8	ALBUM +/-	<b>'</b>	<b>V</b>			
9	VOL ▲/▼	~	~			
10	MENU		<b>'</b>			
11)	RETURN	<b>'</b>				

- With some iPod models, generations and RI Docks, certain buttons may not work as expected.
- For detailed operation of the iPod, please refer to the instruction manual of RI Dock.
- \*1 This button does not turn the Onkyo DS-A2 or DS-A2X RI Dock on or off. Your iPod may not respond the first time you press this button, in which case you should press it again.

This is because the remote controller transmits the On and Standby commands alternately, so if your iPod is already on, it will remain on when the remote controller transmits an On command.

Similarly, if your iPod is already off, it will remain off when the remote controller transmits an Off command.

\*2 Press **DISPLAY** to change the following modes:

#### Standard mode

Nothing is displayed on your TV and you navigate and select your contents by using your iPod models display.

Only this mode can playback the video.

#### **Extended mode (Music)**

Playlists (artists, albums, songs, and so on) are displayed on your TV, and you can navigate and select your music while looking at your TV.

## Extended mode (Video)

Playlists (Movies, Music Videos, TV Shows, Video Podcasts, or Rentals) are displayed on your TV, and you can navigate and select your video while looking at your TV.

\*3 In Extended mode (see \*2), **PLAYLIST** is used as the page jump button.

With the page modes, you can quickly locate your favorite songs even when your song lists, artist lists, and so on are very long.

#### \*4 Resume mode

With the Resume function, you can resume playback of the song that was playing when you removed your iPod from the RI Dock or Standard mode is selected.

- \*5 **TOP MENU** works as a Mode button when used with a DS-A2 RI Dock.
- \*6 **DISPLAY** turns on backlight for 30 seconds.

- In Extended mode (see \*2), the playback will be continued even if the AV receiver is turned off.
- In Extended mode (see \*2), you cannot operate your iPod directly.
- $\bullet$  In Extended mode (see \*2), it may take some time to acquire the contents.
- In Extended mode (see \*2), video contents can not display on your TV.

## **Controlling Other Components**

You can use the AV receiver's remote controller (RC-764M) to control your other AV components, including those made by other manufacturers. This section explains how to enter the remote control code (with the default underlined) for a component that you want to control: DVD, TV, CD, etc.

# Preprogrammed Remote Control Codes

The following **REMOTE MODE** are preprogrammed with remote control codes for controlling the components listed. You do not need to enter a remote control code to control these components.

For details on controlling these components, see the pages indicated.

**BD/DVD** Onkyo Blu-ray Disc player (→ **62**)

**TV/CD** Onkyo CD player (→ **62**)

PORT Onkyo Universal Port Option (→ 58)

## Looking up for Remote Control Code

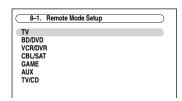
You can look up for appropriate remote control code from on-screen setup menu.

This setting can not be carried out by using the AV receiver's display.

- **1** Press RECEIVER followed by SETUP.
  - The main menu appears onscreen.
- **2** Use **▲/▼** to select "Remote Controller Setup", and then press ENTER.

The "Remote Controller Setup" menu appears.

**3** Press ENTER.



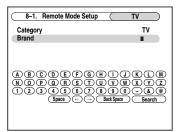
**4** Use **▲/▼** to select remote mode, and then press ENTER.

The category selection menu appears.



**5** Use **△/V** to select category, and then press **ENTER**.

The brand name input panel appears.

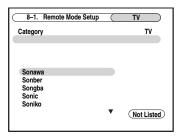


**6** Use **△**/**▼**/**⋖**/**►** to select a character, and then press **ENTER**.

Repeat this step from the 1st character to the 3rd character of the brand name.

When you have entered the 3rd character, select "Search" and press ENTER.

After searching, a list of the brand name appears.



If the brand name is not found:

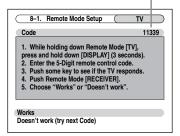
Use ► to select "Not Listed", and then press ENTER.

The brand name input panel appears.

**7** Use  $\Delta/\nabla$  to select brand, and then press ENTER.

After searching, a remote control code and the input procedure appear. Try it.

Remote control code (Number of search results)



8 If you can control component, use **△/▼** to select "Works", and then press ENTER.

The "Remote Mode Setup" menu appears.

If you cannot control component, use **△/▼** to select "Doesn't work (try next code)" and press ENTER.

The next code is appear.

## **Entering Remote Control Codes**

You'll need to enter a code for each component that you want to control.

**1** Look up the appropriate remote control code in the separate Remote Control Codes list.

The codes are organized by category (e.g., DVD player, TV, etc.).

**2** While holding down REMOTE MODE to which you want to enter a code, press and hold down DISPLAY (about 3 seconds).

The remote indicator lights.

## Note

- Remote control codes cannot be entered for RECEIVER and ZONE 2.
- Only TV remote control codes can be entered for TV.
- Except for RECEIVER, TV and ZONE 2, remote control codes from any category can be entered as REMOTE MODE. However, these buttons also work as input selector buttons (→ 25), so choose a REMOTE MODE that corresponds with the input to which you connect your component. For example, if you connect your CD player to the CD input, choose TV/CD when entering its remote control code.
- Within 30 seconds, use the number buttons to enter the 5-digit remote control code.

The remote indicator flashes twice.

If the remote control code is not entered successfully, the remote indicator will flash once slowly.

#### Note

 The remote control codes provided are correct at the time of printing, but are subject to change.

# Remote Control Codes for Onkyo Components Connected via RI

Onkyo components that are connected via **RI** are controlled by pointing the remote controller at the AV receiver, not the component. This allows you to control components that are out of view, in a rack, for example.

Make sure the Onkyo component is connected with an RI cable and an analog audio cable (RCA).

See "Connecting Onkyo  $\bigcirc$  Components" for details ( $\rightarrow$  **21**).

- **2** Enter the appropriate remote control code for REMOTE MODE.
  - BD/DVD
    - **31612**:

Onkyo DVD player with RI

- TV/CD
  - **▶71327**:

Onkyo CD player with RI

**42157**:

Onkyo cassette tape deck with RI

- PORT
  - **81993**:

Onkyo Dock

See the previous section for how to enter remote control codes.

#### Note

- When using a cassette tape deck connected via RI, press and hold TV/CD to switch to TAPE.
- **3** Press REMOTE MODE, point the remote controller at the AV receiver, and operate the component.

If you want to control an Onkyo component by pointing the remote controller directly at it, or you want to control an Onkyo component that's not connected via RI, use the following remote control codes:

- BD/DVD
  - ▶ 30627:

Onkyo DVD player without RI

- TV/CD
  - **▶71817**:

Onkyo CD player without RI

**11807**:

Onkyo TV

If you want to control an Onkyo component by pointing the remote controller directly at it, use the following remote control codes:

▶ 32900:

Onkyo Blu-ray Disc player

**32901**:

Onkyo HD-DVD player

**70868**:

Onkyo MD recorder

**71323**:

Onkyo CD recorder

**82990**:

Onkyo Dock

#### Note

If you connect a cassette tape deck to the TV/CD IN jack, or connect an RI Dock to the to the TV/CD IN or VCR/DVR IN or GAME IN jacks, for RI to work properly, you must set the Input Display accordingly (→ 27).

## Resetting REMOTE MODE Buttons

You can reset a **REMOTE MODE** to its default remote control code.

- **1** While holding down REMOTE MODE that you want to reset, press and hold down AUDIO until the remote indicator lights (about 3 seconds).
- **2** Within 30 seconds, press REMOTE MODE again. The remote indicator flashes twice, indicating that the button has been reset.

Each of **REMOTE MODE** is preprogrammed with a remote control code. When a button is reset, its preprogrammed code is restored.

## Resetting the Remote Controller

You can reset the remote controller to its default settings.

- **1** While holding down RECEIVER, press and hold down AUDIO until the remote indicator lights (about 3 seconds).
- Within 30 seconds, press RECEIVER again.

  The remote indicator flashes twice, indicating that the remote controller has been reset.

## **Controlling Other Components**

By pressing **REMOTE MODE** that's been programmed with the remote control code for your component, you can control your component as below.

For details on entering a remote control code for other components, see "Entering Remote Control Codes" (→ **61**).

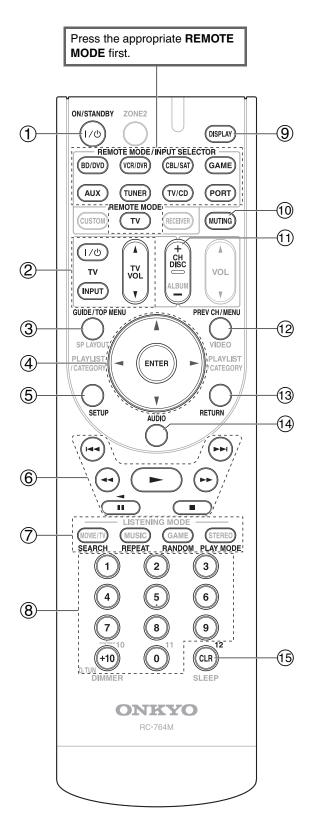
## Controlling a TV

TV is preprogrammed with the remote control code for controlling a TV that supports the RIFID\*1 (limited to some models). The TV must be able to receive remote control commands via RIFID and be connected to the AV receiver via HDMI. If controlling your TV via RIFID doesn't work very well, program your TV's remote control code into TV and use the TV remote mode to control your TV.

# Controlling a Blu-ray Disc/DVD Player, HD DVD Player or DVD Recorder

**BD/DVD** is preprogrammed with the remote control code for controlling a component that supports the RIFID\*1 (limited to some models). The component must be able to receive remote control commands via RIFID and be connected to the AV receiver via HDMI.

\*1 The RIFID supported by the AV receiver is the CEC system control function of the HDMI standard.



## Note

• With some components, certain buttons may not work as expected, and some may not work at all.

## **✓**: Available buttons

_		ı	ı	ı		ı	ı	
	Components							
Buttons		<b>^</b> L	<b>▼</b> DVD player/DVD recorder	Blu-ray Disc player HD DVD player	VCR/PVR	Satellite receiver Cable receiver	CD player/CD recorder MD recorder	Cassette tape deck
1	ON/STANDBY	<b>'</b>	~		<b>'</b>	V	V	<u> </u>
2	l/也, <b>INPUT</b> , TV VOL ▲/▼	~						
3	GUIDE	<b>'</b>			~	~		
	TOP MENU		~					
4	<b>∆</b> / <b>∀</b> / <b>⊲</b> /► ENTER	~	~		•	~	~	
(5)	SETUP	~	~		~	~	~	
6	<b>▶</b> , <b>II</b> , <b>■</b> , <b>◄◄</b> , <b>▶▶</b> , <b>!◄◄</b> , <b>▶▶</b> !	<b>✓</b> *1	~		<b>'</b>	~	~	<b>✓</b> *3
7	SEARCH	<b>✓</b> *1*2	<b>✓</b> *1	<b>✓</b> *2		<b>√</b> *2	~	
	REPEAT	<b>✓</b> *1*2	~	<b>√</b> *2		<b>√</b> *2	~	
	RANDOM	<b>✓</b> *1*2	<b>✓</b> *1	<b>✓</b> *2		<b>✓</b> *2	~	
	PLAY MODE	<b>✓</b> *1*2	<b>✓</b> *1	<b>✓</b> *2		<b>✓</b> *2	~	
8	Number: <b>1</b> to <b>9</b> , <b>0</b>	~	~		~	~	~	
	Number: +10	<b>✓</b> *1	<b>✓</b> *1		~	~	~	
$\sim$	DISPLAY	~	~		~	~	~	
	MUTING	<b>'</b>	~		′	′	′	<b>/</b>
11)	CH +/-	~	~		~	~		
_	DISC +/-		~				~	
12	PREV CH	~			~	~		
_	MENU		<b>'</b>		_			
	RETURN	<b>/</b>	<b>/</b>		<b>'</b>	<b>'</b>		
14		<b>v</b> *1	<b>✓</b> *1		_	<b>'</b>		
15)	CLR	<b>'</b>	~		V	<b>'</b>	~	

- \*1 The RIFID function is not supported. The RIFID supported by the AV receiver is the CEC system control function of the HDMI standard.
- \*2 These buttons function as colored buttons or A, B, C, D buttons.
- \*3 II (Pause) functions as reverse playback.

#### Note

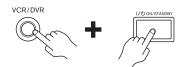
See the "Controlling Your iPod" about the operation of iPod
 (→ 58).

## **Troubleshooting**

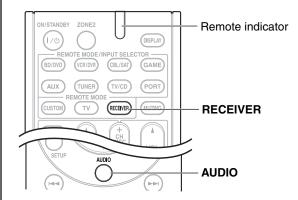
If you have any trouble using the AV receiver, look for a solution in this section. If you can't resolve the issue yourself, contact your Onkyo dealer.

If you can't resolve the issue yourself, try resetting the AV receiver before contacting your Onkyo dealer.

To reset the AV receiver to its factory defaults, turn it on and, while holding down VCR/DVR, press ON/ STANDBY. "Clear" will appear on the display and the AV receiver will enter Standby mode.



Note that resetting the AV receiver will delete your radio presets and custom settings.



To reset the remote controller to its factory defaults, while holding down **RECEIVER**, press and hold down **AUDIO** until the remote indicator lights (about 3 seconds). Within 30 seconds, press **RECEIVER** again.

The on-screen setup menus appear only on a TV that is connected to the HDMI OUT. If your TV is connected to the MONITOR OUT V or the COMPO-**NENT VIDEO OUT, use the AV receiver's display** when changing settings.

## Power

#### ■ Can't turn on the AV receiver

Make sure that the power cord is properly plugged into the wall outlet.

Unplug the power cord from the wall outlet, wait five seconds or more, then plug it in again.

#### ■ The STANDBY indicator flashes red

The protection circuit has been activated. Remove the power cord from the wall outlet immediately. Disconnect all speaker cables and input sources, and leave the AV receiver with its power cord disconnected for 1 hour. After that, reconnect the power cord and set the volume to maximum. If the AV receiver stays on, set the volume to minimum, disconnect the power cord, and reconnect your speakers and input sources. If the AV receiver turns off when you set the volume to maximum, disconnect the power cord, and contact your Onkyo dealer.

#### Audio

There's no sound, or it's very quiet	
Make sure that the digital input source is selected properly.	40
Make sure that all audio connecting plugs are pushed in all the way.	18
Make sure that the inputs and outputs of all components are connected properly.	19-21
Make sure that the polarity of the speaker cables is correct, and that the bare wires are in contact with the metal part of each speaker terminal.	16
Make sure that the input source is properly selected.	25
Make sure that the speaker cables are not shorting.	16
Check the volume. The AV receiver is designed for home theater enjoyment. It has a wide volume range, allowing precise adjustment.	_
If the <b>MUTING</b> indicator is flashing on the display, press the remote controller's <b>MUTING</b> to unmute the AV receiver.	26
While a pair of headphones is connected to the <b>PHONES</b> jack, no sound is output by the speakers.	27
If there's no sound from a DVD player connected to an HDMI IN, check the DVD player's output settings, and be sure to select a supported audio format.	_
Check the digital audio output setting on the connected device. On some game consoles, such as those that support DVD, the default setting is off.	_
With some DVD-Video discs, you need to select an audio output format from a menu.	_
If your turntable uses an MC cartridge, you must connect an MC head amp, or an MC transformer.	_
Make sure that none of the connecting cables are bent, twisted, or damaged.	_
Not all listening modes use all speakers.	34
Specify the speaker distances and adjust the individual speaker levels.	41
Make sure that the speaker setup microphone is not still connected.	_
The input signal format is set to PCM or DTS. Set it to Auto.	52

## ■ Only the front speakers produce sound

When the Stereo or Mono listening mode is selected, only the front speakers and subwoofer produce

Check the Speaker Configuration.

41

41

## Only the center speaker produces sound

If you use the Dolby Pro Logic IIx Movie, Dolby Pro — Logic IIx Music, or Dolby Pro Logic IIx Game listening mode with a mono source, such as an AM radio station or mono TV program, the sound is concentrated in the center speaker.

Make sure the speakers are configured correctly.

■ Noise can be heard

pleted.

## ■ The surround speakers produce no sound

When the T-D (Theater-Dimensional), Stereo or Mono listening mode is selected, the surround speakers produce no sound.

Depending on the source and current listening mode, not much sound may be produced by the surround speakers. Try selecting another listening mode.

Make sure the speakers are configured correctly.

■ The Late Night function doesn't work

audio performance, so don't do it.

repositioning your cables.

Make sure the source material is Dolby Digital, Dolby Digital Plus, and Dolby TrueHD.

■ The speaker volume cannot be set as required

(The volume cannot be set to 79 dB)

Check to see if a maximum volume has been set.

If the volume level of each individual speaker has

been adjusted to high positive values, then the maximum master volume possible may be reduced. Note that the individual speaker volume levels are set

automatically after the Audyssey 2EQ® Room Cor-

rection and Speaker Setup function has been com-

Using cable ties to bundle audio cables with power

An audio cable may be picking up interference. Try

cords, speaker cables, and so on may degrade the

51

48

28, 41

#### ■ The center speaker produces no sound

When the Stereo or Mono listening mode is selected, the center speaker produces no sound.

Make sure the speakers are configured correctly.

■ The front high and surround back speakers produce no sound

Depending on the current listening mode, no sound 34 may be produced by the front high and surround back speakers. Select another listening mode.

Not much sound may be produced by the front high and surround back speakers with some sources.

Make sure the speakers are configured correctly. 41

While Powered Zone 2 is being used, playback in the 53 main room is reduced to 5.1-channels and the front high, and surround back speakers produce no sound.

## ■ About DTS signals

can't be heard

When DTS program material ends and the DTS bitstream stops, the AV receiver remains in DTS listening mode and the **DTS** indicator remains on. This is to prevent noise when you use the pause, fast forward, or fast reverse function on your player. If you switch your player from DTS to PCM, because the AV receiver does not switch formats immediately, you may not hear any sound, in which case you should stop your player for about three seconds, and then resume playback.

With some CD and LD players, you won't be able to playback DTS material properly even though your player is connected to a digital input on the AV receiver. This is usually because the DTS bitstream has been processed (e.g., output level, sampling rate, or frequency response changed) and the AV receiver doesn't recognize it as a genuine DTS signal. In such cases, you may hear noise.

When playing DTS program material, using the pause, fast forward, or fast reverse function on your player may produce a short audible noise. This is not a malfunction.

■ The beginning of audio received by an HDMI IN

## ■ The subwoofer produces no sound

When you play source material that contains no information in the LFE channel, the subwoofer produces no sound.

Make sure the speakers are configured correctly.

#### ■ There's no sound with a certain signal format

Check the digital audio output setting on the connected device. On some game consoles, such as those that support DVD, the default setting is off.

With some DVD-Video discs, you need to select an audio output format from a menu.

Depending on the input signal, some listening modes **34–37** cannot be selected.

Since it takes longer to identify the format of an HDMI signal than it does for other digital audio signals, audio output may not start immediately.

## ■ Can't get 6.1/7.1 playback

If no surround back speakers, and front high speakers are connected, or the Zone 2 speakers are being used, 6.1/7.1 playback is not possible.

You can not always select all of the listening modes, 34-37 depending on the number of the speakers connected.

74		
	r-Y	•

## ■ There's no picture

Make sure that all video connecting plugs are pushed in all the way.	18
Make sure that each video component is properly connected.	19, 20, 56
If your TV is connected to the <b>HDMI OUT</b> , select "" in the " <b>HDMI Input</b> " setup to watch composite video, and component video sources.	39
If the video source is connected to a component video input, you must assign that input to an input selector, and your TV must be connected to either the <b>HDMI OUT</b> or <b>COMPONENT VIDEO OUT</b> .	20, 39

If the video source is connected to a composite video input, your TV must be connected to the **HDMI OUT** or the corresponding composite video output.

If the video source is connected to an HDMI input, you must assign that input to an input selector, and your TV must be connected to the **HDMI OUT**.

On your TV, make sure that the video input to which — the AV receiver is connected is selected.

## ■ There's no picture from a source connected to an HDMI IN

Reliable operation with an HDMI-to-DVI adapter is 72 not guaranteed. In addition, video signals from a PC are not guaranteed.

When the Resolution is set to any resolution not supported by the TV, no video is output by the HDMI outputs.

If the message "**Resolution Error**" appears on the AV receiver's display, this indicates that your TV does not support the current video resolution and you need to select another resolution on your DVD player.

## ■ The on-screen menus don't appear

On your TV, make sure that the video input to which — the AV receiver is connected is selected.

When the AV receiver doesn't connect TV with HDMI, onscreen menus are not displayed.

#### ■ The on screen display does not appear

Depending on the input signal, the on screen display **48** may not appear when the input signal from the **HDMI IN** is output to a device connected to the **HDMI OUT**.

## Tuner

## ■ Reception is noisy, FM stereo reception is noisy, or the FM STEREO indicator doesn't light

Relocate your antenna.	_
Move the AV receiver away from your TV or computer.	_
Listen to the station in mono.	30
When listening to an AM station, operating the remote controller may cause noise.	_
Passing cars and airplanes can cause interference.	_
Concrete walls weaken radio signals.	_
If nothing improves the reception, install an outdoor antenna.	_

## Remote Controller

#### ■ The remote controller doesn't work

Before operating this unit, be sure to press <b>RECEIVER</b> .	
Make sure that the batteries are installed with the correct polarity.	5
Install new batteries. Don't mix different types of batteries, or old and new batteries.	5
Make sure that the remote controller is not too far away from the AV receiver, and that there's no obstruction between the remote controller and the AV receiver's remote control sensor.	5
Make sure that the AV receiver is not subjected to direct sunshine or inverter-type fluorescent lights. Relocate if necessary.	_
If the AV receiver is installed in a rack or cabinet with colored-glass doors, the remote controller may not work reliably when the doors are closed.	_
Make sure you've selected the correct remote controller mode.	12, 62
When using the remote controller to control other manufacturers' AV components, some buttons may not work as expected.	_
Make sure you've entered the correct remote control code.	61
Make sure to set the same ID on both the AV receiver and remote controller.	48

#### ■ Can't control other components

Can't control other components	
If it's an Onkyo component, make sure that the RI cable and analog audio cable are connected properly.  Connecting only an RI cable won't work.	21
Make sure you've selected the correct remote controller mode.	12, 62
If you've connected a cassette tape deck, to the TV/CD IN jack, or an RI Dock to the TV/CD IN or GAME IN or VCR/DVR IN jacks, for the remote controller to work properly, you must set the display.	27
If you cannot operate it, you will need to enter the appropriate remote control code.	60
To control another manufacturer's component, point the remote controller at that component.	61
To control an Onkyo component that's connected via RI, point the remote controller at the AV receiver. Be sure to enter the appropriate remote control code first.	61

To control an Onkyo component that's not connected **61** via **R1**, point the remote controller at the component. Be sure to enter the appropriate remote control code first.

The entered remote control code may not be correct. — If more than one code is listed, try each one.

## **UP-A1 Dock for iPod**

#### ■ There's no sound

Make sure your iPod is actually playing.

Make sure your iPod is inserted properly in the Dock.

Make sure the UP-A1 Dock is connected to the UNIVERSAL PORT jack on the AV receiver.

Make sure the AV receiver is turned on, the correct input source is selected, and the volume is turned up.

Make sure the plugs are pushed in all the way.

#### ■ There's no video

Try resetting your iPod.

Make sure that your iPod model's TV OUT setting is —set to On.

Make sure the correct input is selected on your TV or — the AV receiver.

Some versions of the iPod do not output video.

## ■ The AV receiver's remote controller doesn't control your iPod

Make sure your iPod is properly inserted in the Dock. If your iPod is in a case, it may not connect properly to the Dock. Always remove your iPod from the case before inserting it into the Dock.

The iPod cannot be operated while it's displaying the — Apple logo.

Make sure you've selected the right remote mode.

When you use the AV receiver's remote controller, point it toward your AV receiver.

When connecting UP-A1 Dock to the radio tuner UP-HT1 with AUTO selected by the tuner's Mode Selector switch, you can switch the input source between UP-A1 Dock and the tuner, by pressing **PORT** repeatedly on the front panel.

If you still can't control your iPod, start playback by pressing your iPod model's Play button. Remote operation should then be possible.

Try resetting your iPod.

Depending on your iPod, some buttons may not work as expected.

## ■ The AV receiver unexpectedly selects your iPod as the input source

Always pause iPod playback before selecting a different input source. If playback is not paused, the Direct Change function may select your iPod as the input source by mistake during the transition between tracks.

## Recording

#### ■ Can't record

On your recorder, make sure the correct input is selected.

To prevent signal loops and damage to the AV receiver, input signals are not fed through to outputs with the same name (VCR/DVR IN to VCR/DVR OUT).

## Zone 2

#### ■ There's no sound

Only components connected to analog inputs can be played in Zone 2.

#### ■ The Zone 2 speakers produce no sound

To use the Zone 2 speakers, you must set the "Front 54 High/Zone2" setting to "Zone2".

#### Others

## The sound changes when I connect my headphones

When a pair of headphones is connected, the listening mode is set to Stereo, unless it's already set to Stereo, Mono or Direct.

#### ■ The speaker distance cannot be set as required

In some cases, corrected values suitable for home theater use may be set automatically.

## How do I change the language of a multiplex source

Use the "Multiplex" setting on the "Audio Adjust" 42 menu to select "Main" or "Sub".

#### ■ The RI functions don't work

To use RI, you must make an RI connection and an analog audio connection (RCA) between the component and AV receiver, even if they are connected digitally.

# ■ The functions System On/Auto Power On and Direct Change don't work for components connected via RI

These functions don't work when Zone 2 is turned 2

# ■ When performing "Audyssey 2EQ® Room Correction and Speaker Setup", the measurement fails showing the message "Ambient noise is too high.".

This can be caused by any malfunction in your speaker unit. Check if the unit produces normal sounds.

# ■ The following settings can be made for the composite video inputs

You must use the buttons on the unit to make these settings.

- 1. While holding down the input selector button for the input source that you want to set, press **SETUP**.
- 2. Use **◄/►** to change the setting.
- Press the input selector button for the input source that you want to set when you've finished.

#### Video Attenuation

This setting can be made for the **BD/DVD**, **VCR/DVR**, **CBL/SAT**, **GAME**, or **AUX** input.

If you have a games console connected to the composite video input, and the picture isn't very clear, you can attenuate the gain.

**Video ATT:OFF:** (default).

Video ATT:ON: Gain is reduced by 2 dB.

The AV receiver contains a microcomputer for signal processing and control functions. In very rare situations, severe interference, noise from an external source, or static electricity may cause it to lockup. In the unlikely event that this happens, unplug the power cord from the wall outlet, wait at least five seconds, and then plug it back in again.

Onkyo is not responsible for damages (such as CD rental fees) due to unsuccessful recordings caused by the unit's malfunction. Before you record important data, make sure that the material will be recorded correctly.

Before disconnecting the power cord from the wall outlet, set the AV receiver to Standby.

## **Important Note Regarding Video Playback**

The AV receiver can upconvert component video and composite video sources for display on a TV connected to the **HDMI OUT**. However, if the picture quality of the source is poor, upconversion may make the picture worse or disappear altogether.

In this case, try the following:

**1** If the video source is connected to a component video input, connect your TV to the COMPONENT VIDEO OUT.

If the video source is connected to a composite video input, connect your TV to the **MONITOR OUT V**.

- 2 On the main menu, select "1. Input/Output Assign", and then select "2. HDMI Input". Select the relevant input selector, and assign it to "----" (→ 39).
- On the main menu, select "1. Input/Output Assign", and then select "3. Component Video Input" (→ 40):

If the video source is connected to **COMPONENT VIDEO IN 1**, select the relevant input selector, and assign it to "IN1".

If the video source is connected to **COMPONENT VIDEO IN 2**, select the relevant input selector, and assign it to "IN2".

If the video source is connected to composite video input, select the relevant input selector, and assign it to "----".

## **Specifications**

## AV receiver

## **Amplifier Section**

**Rated Output Power** 

All channels: 130 watts minimum continuous power

per channel, 6 ohm, at 1 kHz with a maximum total harmonic distortion of

**Dynamic Power** 180 W (3 Ω, Front)

> 160 W (4 Ω, Front) 100 W (8 Ω, Front)

**Damping Factor** 60 (Front, 1 kHz, 8 Ω)

Input Sensitivity and Impedance

200 mV/47 kΩ (LINE)

Rated RCA Output Level and Impedance

 $200 \text{ mV}/2.2 \text{ k}\Omega \text{ (REC OUT)}$ 

Frequency Response 5 Hz - 100 kHz/+1 dB, -3 dB (DSP bypass)

**Tone Control Characteristics** 

±10 dB, 50 Hz (BASS)

±10 dB, 20 kHz (TREBLE)

Signal to Noise Ratio 106 dB (LINE, IHF-A)

Speaker Impedance  $6 \Omega$  -  $16 \Omega$ 

#### Video Section

#### Input Sensitivity/Output Level and Impedance

1 Vp-p/75  $\Omega$  (Component Y)

 $0.7 \text{ Vp-p/75} \Omega \text{ (Component PB/CB, PR/CR)}$ 

1 Vp-p/75  $\Omega$  (Composite)

Component Video Frequency Response

5 Hz - 100 MHz/+0 dB, -3 dB

## **Tuner Section**

**FM Tuning Frequency Range** 

87.5 MHz - 107.9 MHz

**AM Tuning Frequency Range** 

530 kHz - 1710 kHz

**Preset Channel** 40

#### General

**Power Supply** AC 120 V, 60 Hz

**Power Consumption Stand-by Power Consumption** 

0.2 W

**Dimensions**  $17-1/8" \times 5-15/16" \times 12-15/16"$  $(\mathbf{W} \times \mathbf{H} \times \mathbf{D})$ 

 $435 \text{ mm} \times 151.5 \text{ mm} \times 328.5 \text{ mm}$ 

Weight 8.6 kg (19.0 lbs.)

#### ■ HDMI

IN 1, IN 2, IN 3, IN 4 Input

Output OUT Video Resolution 1080p

Dolby True HD, DTS Master Audio, **Audio Format** 

DVD-Audio, DSD

3D, Audio Return Channel, Deep Color, Supported

x.v.Color, LipSync, CEC

## ■ Video Inputs

Component IN 1, IN 2

Composite BD/DVD, VCR/DVR, CBL/SAT, GAME,

AUX

#### ■ Video Outputs

Component OUT

MONITOR OUT, VCR/DVR OUT Composite

#### Audio Inputs

**Digital** Optical: 2

Coaxial: 2

BD/DVD, VCR/DVR, CBL/SAT, GAME, Analog

TV/CD, AUX

#### ■ Audio Outputs

VCR/DVR, ZONE2 Line Out Analog

**Subwoofer Pre Output** 

**Speaker Outputs** Main (L, R, C, SL, SR, SBL, SBR)

+ ZONE2 / Front High (L, R)

**Phones** 1 (6.3 ø)

## Others

**SETUP MIC Universal Port** 1

Specifications and features are subject to change without notice.

## 7.1ch Home Theater Speaker Package (HTP-680)

## ■ Powered Subwoofer (SKW-770)

**Type** Bass-reflex **Input sensitivity/Impedance** 

140 mV/20 kΩ

Maximum output power

290 W (Dynamic power)

**Frequency response** 25 Hz to 150 Hz **Cabinet capacity** 37 L (1.3 cubic feet)

Dimensions (W  $\times$  H  $\times$  D)

10-13/16" × 19-15/16" × 16-3/16" 275 mm × 507 mm × 411 mm

(incl. projection)

 Weight
 11.6 kg (25.6 lbs.)

 Drivers unit
 10" (25 cm) Cone Woofer

**Power supply** AC 120 V, 60 Hz

**Power consumption** 163 W

## ■ Front Speaker (SKF-680)

**Type** 2 Way closed box

 $\begin{tabular}{llll} \textbf{Impedance} & 6\Omega \\ \textbf{Maximum input power} & 130 \ W \\ \textbf{Sensitivity} & 81 \ dB/W/m \\ \textbf{Frequency response} & 60 \ Hz \ to \ 50 \ kHz \\ \end{tabular}$ 

Crossover frequency 4 kHz

Cabinet capacity 2.1 L (0.074 cubic feet)

Dimensions (W  $\times$  H  $\times$  D)

4-3/4" × 11-7/16" × 4" 120 mm × 290 mm × 102 mm (incl. grille and projection)

**Weight** 1.1 kg (2.4 lbs.)

**Drivers unit**  $4" (10 \text{ cm}) \text{ Cone (Woofer)} \times 2$ 

1" (2.5 cm) Balanced dome (Tweeter)

**Terminal** Spring type color coded

**Keyhole slot** 2 **Grille** Fixed

## **■ Center Speaker (SKC-680)**

**Type** 2 Way closed box

 $\begin{tabular}{lll} \textbf{Impedance} & 6 \Omega \\ \textbf{Maximum input power} & 130 \ W \\ \textbf{Sensitivity} & 81 \ dB/W/m \\ \textbf{Frequency response} & 60 \ Hz \ to \ 50 \ kHz \\ \end{tabular}$ 

Crossover frequency 4 kHz

Cabinet capacity 2.1 L (0.074 cubic feet)

Dimensions (W  $\times$  H  $\times$  D)

11-7/16" × 4-13/16" × 4-7/16" 290 mm × 122 mm × 113 mm (incl. grille and projection)

**Weight** 1.1 kg (2.4 lbs.)

**Drivers unit**  $4'' (10 \text{ cm}) \text{ Cone (Woofer)} \times 2$ 

1" (2.5 cm) Balanced dome (Tweeter)

Terminal Spring type color coded

Keyhole slot 2
Grille Fixed

# ■ Surround/Surround Back Speaker (SKR-680/SKB-680)

**Type** Full-Range closed box

 Impedance
 6Ω

 Maximum input power
 130 W

 Sensitivity
 79 dB/W/m

 Frequency response
 70 Hz to 20 kHz

 Cabinet capacity
 2.1 L (0.074 cubic feet)

Dimensions (W  $\times$  H  $\times$  D)

4-3/4"  $\times$  11-7/16"  $\times$  4" 120 mm  $\times$  290 mm  $\times$  102 mm (incl. grille and projection)

 Weight
 0.8 kg (1.8 lbs.)

 Drivers unit
 8 cm (3-1/4") Cone

 Terminal
 Spring type color coded

**Keyhole slot** 2 **Grille** Fixed

## 7.1ch Home Theater Speaker Package (HTP-780)

## **■ Powered Subwoofer (SKW-780)**

Type Bass-reflex Input sensitivity/Impedance

 $140 \text{ mV}/20 \text{ k}\Omega$ 

Maximum output power

290 W (Dynamic power)

25 Hz to 150 Hz Frequency response 37 L (1.3 cubic feet) Cabinet capacity

Dimensions ( $W \times H \times D$ )

 $10-13/16" \times 19-15/16" \times 16-3/16"$  $275 \text{ mm} \times 507 \text{ mm} \times 411 \text{ mm}$ 

(incl. projection)

Weight 11.6 kg (25.6 lbs.) **Drivers** unit 10" (25 cm) Cone Woofer

AC 120 V, 60 Hz Power supply

Power consumption 163 W

## ■ Front Speaker (SKF-780)

2 Way Bass-reflex Type

**Impedance**  $6\Omega$ Maximum input power 130 W Sensitivity 79.5 dB/W/m Frequency response 55 Hz-50 kHz

Crossover frequency 4 kHz

Cabinet capacity 7.3 L (0.26 cubic feet) Assembly dimensions (with supplied speaker base)

 $(\mathbf{W} \times \mathbf{H} \times \mathbf{D})$ :

10-5/16" × 41-1/8" × 10-5/16"  $262 \text{ mm} \times 1045 \text{ mm} \times 262 \text{ mm}$ 

(incl. projection) 5.2 kg (11.5 lbs.)

Weight (incl. speaker base)

3-1/4" (8 cm) Cone (Woofer) × 2

**Drivers** unit 1" (2.5 cm) Balanced dome (Tweeter)

**Terminal** Spring type color coded

Grille Fixed

## ■ Center Speaker (SKC-780)

Type 2 Way Bass-reflex

**Impedance** Maximum input power 130 W 79 dB/W/m Sensitivity 60 Hz-50 kHz Frequency response

Crossover frequency 4 kHz

2.8 L (0.10 cubic feet) Cabinet capacity

Dimensions (W  $\times$  H  $\times$  D)

16-9/16" × 4-1/2" × 4-3/4"  $420 \text{ mm} \times 115 \text{ mm} \times 121 \text{ mm}$ (incl. grille and projection)

Weight 2.2 kg (4.9 lbs.)

**Drivers unit** 3-1/4" (8 cm) Cone (Woofer)  $\times$  2

1" (2.5 cm) Balanced dome (Tweeter)

**Terminal** Spring type color coded

Keyhole slot 2 Grille Fixed

## ■ Surround/Surround Back Speaker (SKR-780/SKB-780)

Type Full-Range closed box

**Impedance** 6Ω Maximum input power 130 W 81 dB/W/m Sensitivity 80 Hz-20 kHz Frequency response

Cabinet capacity 1.0 L (0.036 cubic feet)

Dimensions ( $W \times H \times D$ )

4-1/2" × 9-1/16" × 3-3/4"  $115 \text{ mm} \times 230 \text{ mm} \times 96 \text{ mm}$ (incl. grille and projection)

Weight 1.0 kg (2.2 lbs.) **Drivers unit** 3-1/4" (8 cm) Cone Spring type color coded **Terminal** 

Keyhole slot Grille Fixed

## Dock for iPod UP-A1

Dimensions (W  $\times$  H  $\times$  D)

 $3-1/4" \times 1-5/16" \times 2-15/16"$  $83 \text{ mm} \times 33 \text{ mm} \times 74 \text{ mm}$ 

Weight 170 g (6 ounces)

Specifications and features are subject to change without notice.

## **About HDMI**

Designed to meet the increased demands of digital TV, HDMI (High Definition Multimedia Interface) is a new digital interface standard for connecting TVs, projectors, Blu-ray Disc/DVD players, set-top boxes, and other video components. Until now, several separate video and audio cables have been required to connect AV components. With HDMI, a single cable can carry control signals, digital video, and up to eight channels of digital audio (2-channel PCM, multichannel digital audio, and multichannel PCM).

The HDMI video stream (i.e., video signal) is compatible with DVI (Digital Visual Interface)\*1, so TVs and displays with a DVI input can be connected by using an HDMI-to-DVI adapter cable. (This may not work with some TVs and displays, resulting in no picture.)

The AV receiver uses HDCP (High-bandwidth Digital Content Protection)\*2, so only HDCP-compatible components can display the picture.

The AV receiver's HDMI interface is based on the following:

Audio Return Channel, 3D, x.v.Color, Deep Color, Lip Sync, DTS-HD Master Audio, DTS-HD High Resolution Audio, Dolby TrueHD, Dolby Digital Plus, DSD and Multichannel PCM

## **Supported Audio Formats**

- 2-channel linear PCM (32–192 kHz, 16/20/24 bit)
- Multichannel linear PCM (up to 7.1 ch, 32–192 kHz, 16/20/24 bit)
- Bitstream (DSD, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS, DTS-HD High Resolution Audio, DTS-HD Master Audio)

Your Blu-ray Disc/DVD player must also support HDMI output of the above audio formats.

## **About Copyright Protection**

The AV receiver supports HDCP (High-bandwidth Digital Content Protection)\*2, a copy-protection system for digital video signals. Other devices connected to the AV receiver via HDMI must also support HDCP.

- \*1 DVI (Digital Visual Interface): The digital display interface standard set by the DDWG\*3 in 1999.
- \*2 HDCP (High-bandwidth Digital Content Protection): The video encryption technology developed by Intel for HDMI/DVI. It's designed to protect video content and requires a HDCP-compatible device to display the encrypted video.
- \*3 DDWG (Digital Display Working Group): Lead by Intel, Compaq, Fujitsu, Hewlett Packard, IBM, NEC, and Silicon Image, this open industry group's objective is to address the industry's requirements for a digital connectivity specification for high-performance PCs and digital displays.

- The HDMI video stream is compatible with DVI (Digital Visual Interface), so TVs and displays with a DVI input can be connected by using an HDMI-to-DVI adapter cable. (Note that DVI connections only carry video, so you'll need to make a separate connection for audio.) However, reliable operation with such an adapter is not guaranteed. In addition, video signals from a PC are not supported.
- The HDMI audio signal (sampling rate, bit length, etc.) may be restricted by the connected source component. If the picture is poor or there's no sound from a component connected via HDMI, check its setup. Refer to the connected component's instruction manual for details.

# Using an RIHD-compatible TV, Player, or Recorder

components. The AV receiver can be used with CEC (Consumer Electronics Control), which allows system control over HDMI and is part of the HDMI standard. CEC provides interoperability between various components, however, operation with components other than RIHD-compatible components cannot be guaranteed.

### ■ About RIFID-compatible components

The following components are **FIFID**-compatible. (As of February 2010) See the Onkyo web site for latest information.

#### TV

- Panasonic VIERA Link compatible TV
- Toshiba REGZA-LINK compatible TV
- Sharp TV (See Onkyo web site for latest information on compatible models.)

### Players/Recorders

- Onkyo and Integra RIFID-compatible players
- Panasonic VIERA Link compatible players and recorders (only when used together with Panasonic VIERA Link compatible TV)
- Toshiba REGZA-LINK compatible players and recorders (only when used together with Toshiba REGZA-LINK compatible TV)
- Sharp players and recorders (only when used together with Sharp TV)
- \* Models other than those mentioned above may have some interoperability if compatible with CEC which is part of the HDMI Standard, but operation cannot be guaranteed.

#### Note

- Do not connect the **FIHD**-compatible component more than the following number to the HDMI input terminal so that the linked operations work properly.
  - Blu-ray Disc/DVD player is up to three.
  - Blu-ray Disc recorder/DVD recorder/Digital Video Recorder is up to three.
  - Cable/Satellite Set-top box is up to four.
- Do not connect the AV receiver to the other AV receiver/AV amplifier via HDMI.
- When the PIFID-compatible component more than the above-mentioned is connected, the linked operations are not guaranteed.

# ■ Operations that can be performed with RIFID connection

#### For RIFID-compatible TV

The following linked operation is possible by connecting the AV receiver to an **RIFID**-compatible TV.

- The AV receiver will enter Standby mode when the power of the TV is turned to Standby.
- You can set on the menu screen of the TV to either output the audio from the speakers connected to the AV receiver, or from the speakers of the TV.
- It is possible to output the video/audio from the antenna or from the input jack of the TV from the speakers connected to the AV receiver. (A connection such as optical digital cable or similar is required above the HDMI cable.)
- Input to the AV receiver can be selected with the remote controller of the TV.
- Operations such as volume adjustment or similar for the AV receiver can be performed from the remote controller of the TV.

### For RIFID-compatible players/recorders

The following link operation is possible by connecting the AV receiver to an **FIHD**-compatible player/recorder.

- When the playback is started on the player/recorder, input of the AV receiver will switch to the HDMI input of the player/recorder that is playing back.
- Operation of the player/recorder is possible with the remote controller supplied with the AV receiver.
- \* Not all functions may operate depending on the model.

### ■ How to connect and setup

### **1** Confirm the connecting and setting.

1. Connect the **HDMI OUT** jack to the HDMI input jack of the TV.

Blu-ray Disc/DVD player, etc.

HDMI connection

AV receiver

HDMI connection

(OPTICAL)

TV, projector, etc.

2. Connect the audio output from the TV to the **OPTICAL IN 2** jack of the AV receiver using an optical digital cable.

#### Note

- When the audio return channel (ARC) function is used with TV for HDMI (Audio Return Channel), it should not be this connection (→ **49**).
- Connect the HDMI output of the Blu-ray Disc/ DVD player/recorder to the HDMI IN 1 jack of the AV receiver.

### Note

- It is necessary to assign the HDMI input when connecting
  the Blu-ray Disc/DVD player/recorder to other jacks
   (→ 39). Do not assign the components connected to the
  HDMI IN to the TV/CD input at this time. Appropriate
  CEC (Consumer Electronics Control) operation can not be
  guaranteed.
- **2** Change each item in the "HDMI Setup" as below:
  - HDMI Control (RIHD): On
    - Audio Return Channel (ARC): Auto
    - Power Control: On
    - TV Control: On

See details of each setting  $(\rightarrow 49)$ .

### **3** Confirm the settings.

- 1. Turn on the power for all connected components.
- 2. Turn off the power of the TV, and confirm that the power of the connected components is turned off automatically with the link operation.
- 3. Turn on the power of the Blu-ray Disc/DVD player/recorder.
- 4. Start playback of the Blu-ray Disc/DVD player/recorder, and confirm the following.
  - The power of the AV receiver is turned on automatically, and input with the Blu-ray Disc/DVD player/recorder connected is selected.
  - The power of the TV is turned on automatically, and input with the AV receiver connected is selected.
- 5. Following the operating instructions of the TV, select "Use the TV speakers" from the menu screen of the TV, and confirm that the audio is output from the speakers of the TV, and not from the speakers connected to the AV receiver.
- Select "Use the speakers connected from the AV receiver" from the menu screen of the TV, and confirm that the audio is output from the speakers connected to the AV receiver, and not from the TV speakers.

### Note

 Perform the above operations when you initially use the AV receiver, when the settings of each component are changed, when the main power of each component is turned off, when the power cable is disconnected from the power supply, or when there has been a power outage.

#### **4** Operate with the remote controller.

For buttons that can be operated  $(\rightarrow 62)$ .

### Note

- Audio from DVD-Audio or Super Audio CD may not output from the TV speakers. You will be able to output the audio from the TV speakers by setting the audio output of the DVD player to 2ch PCM. (It may not be possible depending on the player models.)
- Even if you set to output audio on the TV speakers, audio
  will be output from the speakers connected to the AV
  receiver when you adjust the volume or switch the input
  on the AV receiver. To output audio from the TV speakers,
  re-do the operations on the TV.
- Do not connect the RI cable when connecting to the RI and RI audio control compatible components.
- When you select anything other than the HDMI jack where the AV receiver is connected as the input on the TV, input on the AV receiver will be switched to "TV/CD".
- The AV receiver will automatically power on in conjunction when it determines it to be necessary. Even if the AV receiver is connected to an **FIHD** compatible TV or player/recorder, it will not power on if it is not necessary. It may not power on in conjunction when the TV is set to output audio from the TV.
- Linked functions with the AV receiver may not work depending on the model. Operate the AV receiver directly in such cases.

# **Video Resolution Chart**

The following tables show how video signals at different resolutions are output by the AV receiver.

✓: Output

	Output	HDMI					Comp	onent				Composite
Input		1080p	1080i	720p	480p	480i	1080p	1080i	720p	480p	480i	480i
НДМІ	1080p	~					Т					
	1080i	V	V	V								
	720p	V	V	V								
	480p	V	<b>'</b>	<b>'</b>	V							
	480i	V	<b>'</b>	<b>'</b>	V	~						
Component	1080p	V					V					
	1080i	V	V	V				V				
	720p	V	<b>'</b>	~					~			
	480p	V	V	V	~					~		
	480i	~	~	~	V	~					V	
Composite	480i	V	V	~	V	~						V

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Sales & Product Planning Div.: 2-1, Nisshin-cho, Neyagawa-shi, OSAKA 572-8540, JAPAN Tel: 072-831-8023 Fax: 072-831-8163

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18 Park Way, Upper Saddle River, N.J. 07458, U.S.A. Tel: 800-229-1687, 201-785-2600 Fax: 201-785-2650 http://www.us.onkyo.com/

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The Coach House 81A High Street, Marlow, Buckinghamshire, SL7 1AB, UK Tel: +44-(0)1628-473-350 Fax: +44-(0)1628-401-700

### **ONKYO CHINA LIMITED**

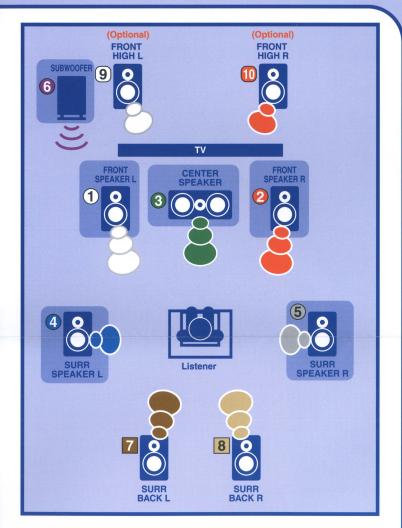
Unit 1 & 12, 9/F, Ever Gain Plaza Tower 1, 88, Container Port Road, Kwai Chung, N.T., Hong Kong. Tel: 852-2429-3118 Fax: 852-2428-9039 http://www.ch.onkyo.com/

Y1004-1



# **QUICK SETUP**

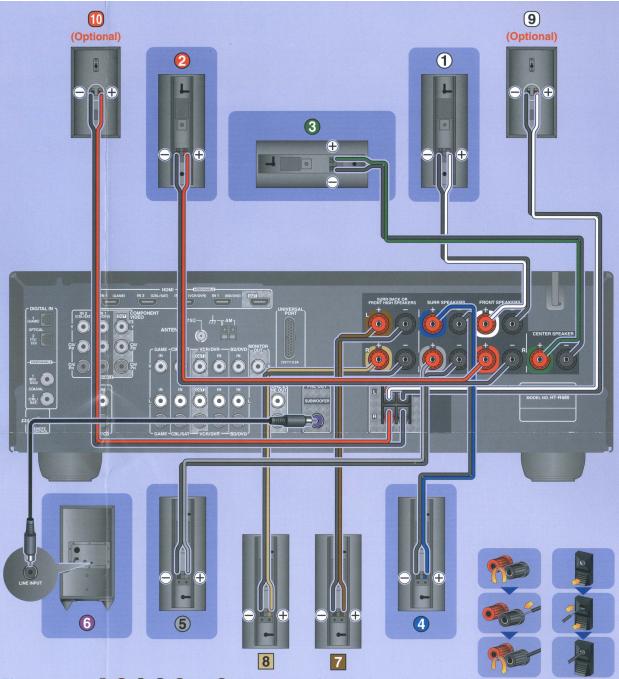
Model: HT-S6300



### **Speaker Configuration**

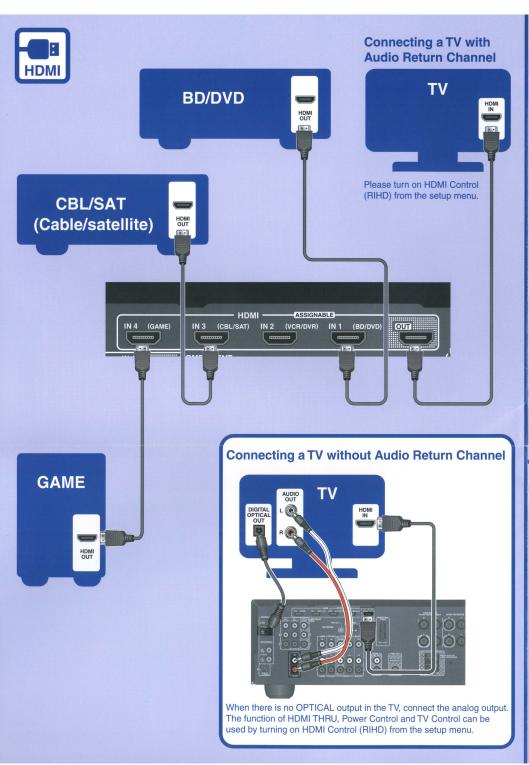
5.1-channel: 1 2 3 4 5 6 7.1-channel: 1 2 3 4 5 6 + 7 8

7.1-channel: (1) (2) (3) (4) (5) (6) (7) (10)



- Please connect (1), (2), (3), (4), (5) and (6), when connecting 5.1-channel surround.
- When you connect the front high left and right speakers, prepare for it separately, or use the surround back left and right speakers.

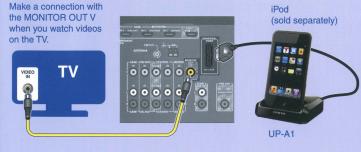






### Connecting a UP-A1 with the Port connector

### **Connecting a Portable Player**



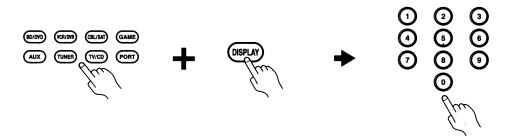


Portable Player (sold separately)



\* iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

# **Remote Control Codes**



- 1. While holding down the REMOTE MODE button to which you want to enter a code, press and hold down the [DISPLAY] button until the Remote indicator lights (about 3 seconds).
  - On Integra products, button names are capitalized. For example, "Remote Mode" button and "Display" button.
- 2. Within 30 seconds, use the number buttons to enter the 5-digit remote control code. The Remote indicator flashes twice.

#### Notes:

- Remote control codes cannot be entered for the [RECEIVER] and [ZONE 2] REMOTE MODE buttons.
- Only TV remote control codes can be entered for the [TV] REMOTE MODE button.

### Codes de télécommande

- 1. Maintenez enfoncé le bouton REMOTE MODE pour lequel vous voulez entrer un code et appuyez sur le bouton [DISPLAY] jusqu'à ce que l'indicateur de télécommande s'allume (environ 3 secondes).
- 2. Entrez les 5 chiffres du code de télécommande avec les boutons numériques dans les 30 secondes. Le témoin Remote clignote deux fois.

#### Remarque:

- Il est impossible d'entrer des codes de télécommande pour les boutons [RECEIVER] et [ZONE 2] REMOTE MODE.
- Il est impossible d'entrer d'autres codes de télécommande que des codes de téléviseur pour le bouton [TV] REMOTE MODE.

# Códigos de control remoto

- 1. Mientras mantiene pulsado el botón REMOTE MODE en el que desea introducir un código, mantenga pulsado el botón [DISPLAY] hasta que se ilumine el indicador Remoto (unos 3 segundos).
- 2. En menos de 30 segundos, utilice los botones de número para introducir el código de 5 dígitos para control remoto.

El indicador Remote parpadea dos veces.

#### Nota:

- Los códigos del control remoto no se pueden entrar para los botones [RECEIVER] y [ZONE 2] REMOTE MODE.
- Sólo se pueden introducir códigos de control remoto de TV para el botón [TV] REMOTE MODE.

### Codici del telecomando

- 1. Tenendo premuto il pulsante REMOTE MODE al quale volete assegnare il codice, premete et mantenete premuto il pulsante [DISPLAY] fino a quando l'indicatore Remote si accende (dopo ±3 secondi).
- 2. Entro 30 secondi utilizzate i pulsanti numerici per inserire il codice di telecomando a 5 cifre. L'indicatore Remote lampeggia due volte.

#### Nota:

- Non si possono inserire codici di telecomando per i pulsanti [RECEIVER] e [ZONE 2] REMOTE MODE.
- Il pulsante [TV] REMOTE MODE permette solo di entrare codici di telecomando per una TV.

### **Fernbedienungscodes**

- 1. Halten Sie die REMOTE MODE-Taste, der Sie den Code zuordnen möchten, gedrückt, während Sie die [DISPLAY]-Taste so lange betätigen, bis die "Remote"-Diode leuchtet (nach ±3 Sekunden).
- 2. Geben Sie mit den Zifferntasten innerhalb von 30 Sekunden den 5-stelligen Herstellercode ein. Die "Remote"-Diode blinkt zwei Mal.

#### Anmerkung:

- Der [RECEIVER]- und [ZONE 2] REMOTE MODE-Taste kann kein Code zugeordnet werden.
- Der Taste [TV] REMOTE MODE können nur Fernbedienungscodes für einen Fernseher zugeordnet werden.

### Afstandsbedieningscodes

- 1. Terwijl u de REMOTE MODE toets waaronder u een code wilt vastleggen ingedrukt houdt, drukt u op de [DISPLAY] toets en houdt deze dan ingedrukt totdat de afstandsbedieningsindicator oplicht (ongeveer 3 seconden).
- 2. Voer binnen 30 seconden met de cijfertoetsen de 5-cijferige afstandsbedieningscode in. De afstandsbedieningsindicator knippert tweemaal.

#### Opmerking:

- Er kunnen geen afstandsbedieningscodes worden ingevoerd voor de [RECEIVER] en [ZONE 2] REMOTE MODE toetsen.
- Alleen TV afstandsbedieningscodes kunnen worden ingevoerd voor de [TV] REMOTE MODE toets.

## Fjärrstyrningskoder

- 1. Tryck in den REMOTE MODE-knapp för vilken en kod ska matas in och tryck sedan in knappen [DISPLAY] och håll båda knapparna intryckta tills fjärrstyrningsindikatorn tänds (efter cirka 3 sekunder).
- 2. Mata inom 30 sekunder in den 5-siffriga fjärrstyrningskoden med hjälp av sifferknapparna. Fjärrsignalindikatorn blinkar två gånger.

#### Notera:

- Det går inte att mata in några fjärrstyrningskoder för knapparna REMOTE MODE [RECEIVER] och [ZONE 2].
- Endast fjärrstyrningskoder för en teve kan matas in för knappen [TV] REMOTE MODE.

### 遙控代碼

- 1. 如果一邊按著 REMOTE MODE( 遙控模式 ) 按鍵, 一邊想輸入一種碼時, 請按著 [DISPLAY]( 顯示 ) 按鍵直到遙控 指示等點亮為止(大約 3 秒鍾)。
- 2. 在 30 秒內, 使用數字鍵輸入 5 位數字的遙控代碼。

遙控指示器閃爍 2 次。

#### 注意:

- [RECEIVER] 鍵和 [ZONE 2] REMOTE MODE 鍵不能輸入遙控代碼。
- 只有 TV 遙控碼才可以通過 [TV] REMOTE MODE (TV 遙控模式 ) 按鍵來輸入。

### 遥控代码

- 1. 如果一边按著 REMOTE MODE( 遥控模式) 按键, 一边想输入一种码时, 请按著 [DISPLAY]( 显示) 按键直到遥控指示等点亮为止(大约3秒钟)。
- 2. 在 30 秒内, 使用数字键输入 5 位数字的遥控代码。

遥控指示器闪烁 2 次。

#### 注音·

- [RECEIVER] 键和 [ZONE 2] REMOTE MODE 键不能输入遥控代码。
- 只有 TV 遥控码才可以通过 [TV]REMOTE MODE(TV 遥控模式) 按键来输入。

Dedicated Onkyo Receiver			
Default	62503		
Zone 2	62506		

25/10 2				
Cable Set Top Box				
Bright House	01376, 01877			
Cable & Wireless	01068			
Cable One	01376, 01877			
Cablevision	01376, 01877			
	01376, 01877,			
Charter	02187			
Cisco	01877			
0	01376, 01877,			
Comcast	02576			
Cox	01376, 01877			
Daeryung	01877			
Digeo	02187			
Director	00476			
DX Antenna	01500			
France Telecom	00817			
Freebox	01482			
Fujitsu	01497			
Gehua	00476			
General Instrument	00476			
Humov	00660, 02142,			
Humax	02447			
Insight	01376, 01877			
Jerrold	00476			
Knology	01877			
Macab	00817			
Mediacom	01376, 01877			
Motorola	00476, 01376,			
	01562			
NEC	01496			
Noos	00817			
NTL	01060, 01068			
Ono	01068, 01562			
Optus	01060			
Orange	00817			
Pace	01060, 01068, 01877			
Panasonic	01488			
Philips	00817			
Pioneer	01500, 01877			
Rogers	01877			
Sagem	00817			
Samauna	01060, 01666,			
Samsung	02015			
Scientific Atlanta	01877			
Shaw	01376			
Sony	01006, 01460			
Suddenlink	01376, 01877			
Sumitomo	01500			
Telewest	01068			
Time Warner	01376, 01877, 02187			
Tivo	02576			
Toshiba	01509			
Virgin Media	01060, 01068			
Visiopass	00817			
Ziggo	00660, 01666,			
	02015, 02142			

Cable/PVR Com	bination
Bright House	01376, 01877
Cable One	01376, 01877
Cablevision	01376, 01877
Charter	01376, 01877, 02187
Cisco	01877
Comcast	01376, 01877, 02576
Cox	01376, 01877
Digeo	02187
Freebox	01482
Humax	02142
Insight	01376, 01877
Knology	01877
Mediacom	01376, 01877
Motorola	01376
Pace	01877
Pioneer	01877
Rogers	01877
Scientific Atlanta	01877
Shaw	01376
Sony	01006
Suddenlink	01376, 01877
Time Warner	01376, 01877, 02187
Tivo	02576
Ziggo	02142
CD	
Advantage	70032
Advantage AH!	70157
Aiwa	70157
Arcam	70157
Atoll Electronique	70157
Audio Research	70157
Audiolab	70157
Audiomeca	70157
A di ata a	70157

CD	
Advantage	70032
AH!	70157
Aiwa	70157
Arcam	70157
Atoll Electronique	70157
Audio Research	70157
Audiolab	70157
Audiomeca	70157
Audioton	70157
AVI	70157
Balanced Audio Technology	70157
Cairn	70157
California Audio Labs	70029, 70303
Cambridge	70157
Cambridge Audio	70157
Carver	70157
CCE	70157
Cyrus	70157
Denon	70003, 70626, 70766
DKK	70000
DMX Electronics	70157
Dual	70003
Dynaco	70157
Genexxa	70000, 70032
Goldmund	70157
Grundig	70157
Harman/Kardon	70157
Hitachi	70032
Integra	70101, 71327, 71817
JVC	70072

CD	
Kenwood	70036, 70157, 70626
Krell	70157
Linn	70157
Loewe	70157
Magnavox	70157
Marantz	70029, 70157, 70626
Matsui	70157
MCS	70029
Memorex	70032
Meridian	70157
Micromega	70157
Miro	70000
Mission	70157
Myryad NAD	70157
	70000, 70721
Naim	70157
NSM	70157
Onkyo	70868, 71323, 71327, 71817
Optimus	70000, 70032
Panasonic	70029, 70303
Philips	70157, 70626
Pioneer	70032, 70101
Polk Audio	70157
	70157
Primare	
Proton	70157
QED	70157
Quad	70157
Quasar	70029
Radiola	70157
RCA	70032
Restek	70157
Revox	70157
Rotel	70157
SAE	70157
Sansui	70157
SAST	70157
Siemens	70157
Silsonic	70036
Simaudio	70157
Sonic Frontiers	70157
Sony	70000, 70490
Sylvania	70157
TAG McLaren	70157
Tandy	70032
Technics	70029, 70303
Thorens	70157
Thule Audio	70157
Traxdata	70626
Universum	70157
Victor	70072
710101	70002, 70032,
Wards	70157
Yamaha	70032, 70036, 70490
Zonda	70157
CD-R	
Denon	70626, 70766
Integra	71322, 71323
JVC	70072
300	10012

CD-R	
Kenwood	70626
Marantz	70626
Onkyo	71322, 71323
Philips	70626
Sony	70000
MD	
Integra	70868, 71808
Onkyo	70868, 71808
Sony	70000, 70490
Yamaha	70490
Cassette Deck Aiwa	140000
Arcam	40029 40076
Audiolab	40076
Carver	40029
Denon	40029
Grundig	40078
Harman/Kardon	40029
Inkel	40029
JVC	40244
Kenwood	40070
Magnavox	40029
Marantz	40029
Myryad	40029
Onkyo	42157
Optimus	40027
Philips	40029
Pioneer	40027
Polk Audio	40029
Radiola	40029
RCA	40027
Revox	40029
Sansui	40029
Sony	40243
Thorens	40029
Victor	40244
Wards	40027, 40029
Yamaha	40097
Accessory	_
Onkyo	81993, 82351, 82990
	02330
Accessor	
Accessory ADB	02254
AT&T	02254
BT Vision	02294
Epson	02294
Kreatel	01385
Magnavox	01563
	00858, 01998,
Motorola	02378
Philco	01563
Scientific Atlanta	00858
SingTel	01998
Sylvania	01563
	01005
TeliaSonera	01385
TeliaSonera Verizon	02378

Receiver	
Onkyo	52503
Satellite Set Top	Вох
@sat	01300
@Sky	01334
Acoustic Solutions	01284
ADB	00642, 00887, 01259
Akura	01626
Alba	01284
Allvision	01334
Amstrad	00847, 01175,
	01693
Ansonic	02418
Arnion	01300
ASCI	01334
AssCom Astro	00853
Atlanta	00173, 01100
Atsat	01300
AtSky	01334
	00642, 00879,
Aurora	01433
Austar	00642, 00879,
	01259
Axil	01413, 01457, 02418
Axitronic	01626
Balmet	01457
Bell ExpressVu	00775
Belson	02418
Big Sat	01457
Black Diamond	01284
Blaupunkt	00173
Boshmann	01413, 01631
Boston	01251
Boxer	01458
British Sky Broadcasting	00847, 01175
Dioadcasting	00847, 01175,
BskyB	01662
Bush	01284, 01291,
	01626, 01645
Canal Digital	00853
Canal Satellite	00853
Canal+	00853
Centrex	01457
CGV	01413, 01567 01334, 01626
CityCom	01176
Clatronic	01413
Clayton	01626
Comag	01413
Comsat	01413
Coship	01457
Crown	01284
CS	01631
Cyfrowy Polsat	00853, 02527
D-box	00723, 01114
Dantax	01626
Denver	02418
Digitality	01242, 01631
Digiality	01334

0.1.111.0.170			
Satellite Set Top			
Digifusion	01645		
Digihome	01284		
DigiLogic	01284		
DigiQuest	01300, 01457,		
——————	01631		
Digisky	01457		
DigitalBox	01100, 01631		
Digiwave	01631		
	00099, 00247,		
DirecTV	00566, 00639,		
5	01142, 01377,		
	01442, 01749		
Dish Network	00775, 01775		
System			
Dishpro	00775, 01775		
DishTV	01300		
Dream Multimedia	01237		
DSTV	00642, 00879,		
	01433		
Durabrand	01284		
Estant	00775, 00853,		
Echostar	01323, 01409,		
F-ti-t	01775, 02527		
Edision	01631		
Elap	01413, 01567		
Elbe	02418		
Energy Sistem	01631		
Engel	01251		
EuroLine	01251		
Expressvu	00775, 01775		
Fagor	01611		
Ferguson	01291		
Finlux	01626		
Fly Com	01457		
FMD	01413, 01457		
Fordal	00879, 01176,		
Foxtel	01356		
Fuba	00173, 01251		
Galaxis	00853, 00879		
GE .	00566		
General Satellite	01176		
	01251, 01334,		
Globo	01626		
GOI	00775, 01775		
Gold Box	00853		
Gold Vision	01631		
GoldMaster	01334		
Goodmans	01284, 01291		
Gradiente	00099, 00887		
Grandin	01626		
Grocos	01409, 01457		
Grundig	00173, 00847, 00853, 00879,		
Grundig	01284, 01291		
Haier	02418		
Hama	01567		
Hanseatic	01100		
Hirschmann	00173		
Hitachi	01284		
Hornet	01300		
HTS	00775, 01775		
Hughes Network	01142, 01442,		
Systems	01749		

Satellite Set Top	Вох
	01176, 01427,
	01675, 01808,
Humax	01882, 01915,
	02144, 02408,
	02616
ID Digital	01176
ILLUSION sat	01631
	01100, 01195,
Imperial	01334
Indovision	00887
Inno Hit	01626
Innova	00099
iotronic	01413
ISkyB	00887
ITT Nokia	00723
Jadeworld	00642
Jaeger	01334
JVC	00775, 01775
Kaon	01300
Kathrein	00173, 01561,
	01567
Kenwood	00853
Kreiling	01626
Kreiselmeyer	00173
L&S Electronic	01334
LaSAT	00173
Lava	01631
Leiko	01626
Lemon	01334
Lenoxx	01611
Listo	01626
Lodos	01284
Logik	01284
Manhattan	01300
Maspro	00173
Matsui	00173, 01284,
Iviaisui	01626
Maximum	01334
Mediabox	00853
Mediacom	01206
MediaSat	00853
Medion	01334, 01626
Metronic	01334, 01413
Metz	00173
IAICIT	00642, 00879,
Multichoice	01433, 02059,
MUNICIPIE	02060
MySky	01356, 01693
	01334
NEOTION Notest	
Netsat	00099, 00887
N.C.L.	100700
Nikko	00723
Nikko Nokia	00723, 00853,
Nokia	00723, 00853, 01223
Nokia Nordmende	00723, 00853, 01223 01611
Nokia	00723, 00853, 01223 01611 01284
Nokia Nordmende	00723, 00853, 01223 01611
Nokia Nordmende Onn	00723, 00853, 01223 01611 01284 01413, 01611,
Nokia Nordmende Onn Optex	00723, 00853, 01223 01611 01284 01413, 01611, 01626
Nokia  Nordmende Onn Optex Optus Orbis	00723, 00853, 01223 01611 01284 01413, 01611, 01626 00879, 01356 01334
Nokia  Nordmende Onn Optex Optus	00723, 00853, 01223 01611 01284 01413, 01611, 01626 00879, 01356 01334 01100, 01195
Nokia  Nordmende Onn Optex Optus Orbis Orbitech	00723, 00853, 01223 01611 01284 01413, 01611, 01626 00879, 01356 01334 01100, 01195 00847, 00853,
Nokia  Nordmende Onn Optex Optus Orbis	00723, 00853, 01223 01611 01284 01413, 01611, 01626 00879, 01356 01334 01100, 01195
Nokia  Nordmende Onn Optex Optus Orbis Orbitech	00723, 00853, 01223 01611 01284 01413, 01611, 01626 00879, 01356 01334 01100, 01195 00847, 00853, 00887, 01175,

Satellite Set Top Box			
Pacific	01284		
Palcom	01409		
Panasat	00879, 01433		
	00247, 00701,		
Panasonic	00847, 01304,		
	01404		
Panda	00173		
Pass	01567		
peeKTon	01457, 02418		
	00099, 00133,		
Philips	00173, 00853, 00887, 01114,		
Philips	01142, 01442,		
	01749		
Phoenix	02418		
Pino	01334		
Pioneer	00853, 01308		
PMB	01611		
Premier	00723, 01675		
Pro Basic	00853		
Proline	01284		
Proscan	00566		
QNS	01404		
RCA	00566, 01291		
Regal	01251		
Roadstar	00853		
Rollmaster	01413		
Rownsonic	01567		
SAB	01251, 01300		
Sagem	01114		
Saivod	02418		
	00853, 01175,		
Samsung	01206, 01276, 01377, 01442,		
	01458		
Sansui	01251		
Sanyo	01626		
Sat Control	01300		
SAT+	01409		
Satplus	01100		
SatyCon	01631		
Schaub Lorenz	02418		
Schneider	01206, 01251		
Cobyolacr	01334, 01457,		
Schwaiger	01631		
Sedea	01206, 01626		
Electronique			
SEG	01251, 01284,		
Sorvimet	01626		
Servimat ServiSat	01251		
	01631		
Shark Sherwood	01409		
Siemens	00173, 01334		
Sigmatek	02418		
Jighiatek	00099, 00847,		
SKY	00099, 00847,		
<b></b> -	01662, 01693		
SKY Brazil	00887		
SKY Italia	00853, 01693		
SKY PerfecTV!	02299, 02616		
Sky XL	01251		
Sky+	01175		
	•		

Satellite Set Top Box           Skymaster         01334, 01409, 01567, 01611           Skymax         01413           Skyplus         01175, 01334           Skyvision         01334           SM Electronic         01409           Smart         01404, 01413, 01631           SmartVision         01457           Sony         00639, 00847, 00853, 01558, 02299           Star         00887           Stream System         01300           Strong         01284, 01300, 01409, 01626, 02418           Sunny         01300           Sunstar         00642           Supernova         00887           Supratech         01413           Systec         01334           TBoston         01251, 02418           Teac         01251, 02418           Technika         01284           Technical         01266           Technosat         01206           Technos	Catallita Cat Tan	Box
Skymax	Satellite Set Top	
Skymax         01413           Skyplus         01175, 01334           Skyvision         01334           SM Electronic         01409           Smart         01404, 01413, 01631           Smart Vision         01457           00639, 00847, 00853, 01558, 02299         Star         00887           Stream System         01300           Strong         01284, 01300, 01409, 01626, 02418           Sunny         01300           Sunstar         00642           Supernova         00887           Supratech         01413           Systec         01334           TBoston         01251, 02418           Teac         01251, 02418           Teach O1251         01248           Technical         01626           Technical         01626           Technosat         01206           Technosat         01206           Technosat         01206           Televinoad         01284, 01626           Telestar         01251, 01334, 01626           Televinoad         002527           Televinoad         00847, 00853, 0134, 01626           Televinoad         00847, 00853, 01251, 01291, 01462	Skymaster	
Skyplus         01175, 01334           Skyvision         01334           SM Electronic         01409           Smart         01404, 01413, 01631           Smart Vision         01457           Sony         00853, 00847, 00853, 01558, 02299           Star         00887           Stream System         01300           Strong         01284, 01300, 01409, 01626, 02418           Sunny         01300           Sunstar         00642           Supernova         00887           Supratech         01413           Systec         01334           TBoston         01251, 02418           Teac         01251           Technical         01626           Technika         01284           Technosat         01206           Technosat         01206           Technosat         01206           Techwood         01284, 01626           Telestar         01251, 01334, 01626           Televes         01300, 01334           Televes         01300, 01334           Televisa         00887           Tevion         01409           00847, 00853, 01251, 01291, 01662           Tivo </td <td>Skymax</td> <td></td>	Skymax	
Skyvision         01334           SM Electronic         01409           Smart         01404, 01413, 01631           Smart Vision         01457           Sony         00853, 01558, 02299           Star         00887           Stream System         01300           Strong         01883, 00879, 01284, 01300, 01409, 01626, 02418           Sunny         01300           Sunstar         00642           Supernova         00887           Supratech         01413           Systec         01334           TBoston         01251, 02418           Teac         01251           Technical         01626           Technika         01284           Technical         01626           Technika         01284           Technosat         01206           Technosat         01206           Techwood         01284, 01626           TELE System         01251, 01409, 01611           Telestar         01251, 01334, 01626           Televes         01300, 01334           Televes         01300, 01334           Televes         01300, 01334           Televisa         00887		
SM Electronic         01409           Smart         01404, 01413, 01631           SmartVision         01457           00639, 00847, 00853, 01558, 02299         Star           Ster 00887         00887           Stream System         01300           Strong         01284, 01300, 01409, 01626, 02418           Sunny         01300           Sunstar         00642           Supernova         00887           Supratech         01413           Systec         01334           TBoston         01251, 02418           Teac         01251           Technical         01626           Technika         01284           Technical         01626           Technosat         01206           Technosat         01206           Technosat         01206           Techwood         01284, 01626           TELE System         01251, 01409, 01611           Telestar         01251, 01334, 01626           Televes         01300, 01334           Televes         01300, 01334           Televia         0087           Tona         01046, 01175, 01294           Othoso         00847, 00853, 01251, 01291		
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Smart         01631           SmartVision         01457           00639, 00847, 00853, 01558, 02299         Star           Stream System         01300           00853, 00879, 01284, 01300, 01409, 01626, 02418         Sunny           Sunny         01300           Sunstar         00642           Supernova         00887           Superatech         01413           Systec         01334           TBoston         01251, 02418           Teac         01251           Technical         01626           Technika         01284           Technical         01626           Technosat         01206           Technosat         01206           Technosat         01206           Techwood         01284, 01626           TELE System         01251, 01409, 01611           Telestar         01251, 01409, 01611           Televisa         00887           Televisa         00887           Tevion         01409           00847, 00853, 0134         010626           Tivo         01142, 01442           Tonna         01611           Topfield         01206		01404, 01413,
Sony	Smart	
Sony	SmartVision	01457
Star   00887		00639, 00847,
Star         00887           Stream System         01300           00853, 00879, 01284, 01300, 01409, 01626, 02418           Sunny         01300           Sunstar         00642           Supernova         00887           Supratech         01413           Systec         01334           TBoston         01251, 02418           Teac         01251           Technical         01626           Technika         01284           Technical         01626           Technika         01284           Technical         01206           Technosat         01206           Technosat         01206           Technosat         01251, 01409, 01611           Telefonica         02527           Olidal         01100, 01195, 01626           Televes         01300, 01334           Televia         01251, 01334, 01626           Televes         01300, 01334           Televia         01409           00847, 00853, 01251, 01291, 01662           Tivo         01142, 01442           Tonna         01662           Tivo         01142, 01442           Tonna         01611 <td>Sony</td> <td></td>	Sony	
Stream System         01300           00853, 00879, 01284, 01300, 01409, 01626, 02418           Sunny         01300           Sunstar         00642           Supernova         00887           Superatech         01413           Systec         01334           TBoston         01251, 02418           Teac         01251           Technical         01626           Technika         01284           Technika         01284           Technisat         01100, 01195           Technosat         01206           Techwood         01284, 01626           TELE System         01251, 01409, 01611           Telefonica         02527           O1100, 01195, 01251, 01334, 01626           Televes         01300, 01334           Televes         01300, 01334           Televisa         00887           Tevion         01409           00847, 00853, 01291, 01662           Tivo         01142, 01442           Tonna         01611           Topfield         01206           Toshiba         01284, 01749           Trevi         01251           Universum         00173, 01251 <td></td> <td></td>		
Strong		
Strong         01284, 01300, 01409, 01626, 02418           Sunny         01300           Sunstar         00642           Supernova         00887           Superatech         01413           Systec         01334           TBoston         01251, 02418           Teac         01251           Technical         01626           Technika         01284           Technosat         01206           Technosat         01291, 01409, 01611           Telestar         01251, 01334, 01626           Televisa         00887           Tevion         01409           Tevisa         00847, 00853, 01334           Televisa         00847, 00853, 01291, 01462           Tivo         01142, 01442           Tonna         01611           Topfield         01206           Toshiba         01291, 01462           Tivi         01251           Universum         <	Stream System	
Sunny 01300 Sunstar 00642 Supernova 00887 Supratech 01413 Systec 01334 TBoston 01251, 02418 Teac 01251 Technical 01626 Technika 01284 TechniSat 01100, 01195 Technosat 01284, 01626 Televood 01284, 01626 Televes 01300, 01334 Televisa 00887 Tevion 01409 Trevi 01291, 01662 Trivo 01142, 01442 Tonna 01611 Topfield 01206 Toshiba 01284, 01749 Trevi 01251 Triax 01251 Triax 01251 Triax 01251 Universum 00173, 01251 Variosat 01403 Vestel 01251, 01284 Vision 01626 Visiosat 01413 Volcasat 02418 Vavelength 01413 Wharfedale 01284		00853, 00879,
Sunny	Strong	01204, 01300,
Sunny         01300           Sunstar         00642           Supernova         00887           Supratech         01413           Systec         01334           TBoston         01251, 02418           Teac         01251           Technical         01626           Technika         01284           Technosat         01206           Televisa         01251, 01409, 01195, 01291, 01409, 01626           Telestar         01300, 01334, 01626           Televisa         00887           Tevion         01409           00847, 00853, 0134, 01626           Tivo         01409           00847, 00853, 01046, 01175, 01291, 01662           Tivo         01142, 01442           Tonna         01611           Topfield         01206           Toshiba         01284, 01749           Trevi         01251           Univeri         01611           <		1
Sunstar         00642           Supernova         00887           Supratech         01413           Systec         01334           TBoston         01251, 02418           Teac         01251           Technical         01626           Technika         01284           Technosat         01206           Technosat         01206           Techwood         01284, 01626           Telestar         01251, 01409, 01611           Telefonica         02527           Telestar         01206, 01195, 01251, 01334, 01626           Televisa         00887           Tevion         01409           Oward         00847, 00853, 01234, 01626           Tivo         014409           Thomson         01046, 01175, 01291, 01662           Tivo         01142, 01442           Tonna         01611           Topfield         01206           Toshiba         01284, 01749           Trevi         01251           Oward         00853, 01251, 01413, 01611, 01626           Twinner         01611           UEC         00879, 01356           United         01251           Univ	Sunny	
Supernova         00887           Supratech         01413           Systec         01334           TBoston         01251, 02418           Teac         01251           Technical         01626           Technika         01284           Technisat         01100, 01195           Technosat         01206           Techwood         01284, 01626           TELE System         01251, 01409, 01611           Telefonica         02527           Telestar         01251, 01334, 01626           Televes         01300, 01334           Televisa         00887           Tevion         01409           00847, 00853, 01334           Televisa         00847, 00853, 01291, 01662           Tivo         01442, 01442           Tonna         01611           Topfield         01206           Toshiba         01284, 01749           Trevi         01251           O0853, 01251, 01413, 01611, 01626           Twinner         01611           UEC         00879, 01356           United         01251           Universum         00173, 01251           Variosat         00173     <		00642
Supratech         01413           Systec         01334           TBoston         01251, 02418           Teac         01251           Technical         01626           Technika         01284           Technosat         01206           Techwood         01284, 01626           Techwood         01284, 01626           Telestar         01251, 01409, 01611           Telefonica         02527           Telestar         01251, 01334, 01626           Televes         01300, 01334           Televisa         00887           Tevion         01409           00847, 00853, 0134         01046, 01175, 01291, 01662           Tivo         01142, 01442           Tonna         01611           Topfield         01206           Toshiba         01284, 01749           Trevi         01251           Omeson         00853, 01251, 01413, 01611, 01626           Twinner         01611           UEC         00879, 01356           United         01251           Universum         00173, 01251           Variosat         00173           VEA         02418           Vestel		00887
Systec         01334           TBoston         01251, 02418           Teac         01251           Technical         01626           Technika         01284           Technosat         01206           Technosat         01206           Techwood         01284, 01626           Techwood         01251, 01409, 01611           Telefonica         02527           Telefonica         02527           Telestar         01201, 01195, 01251, 01334, 01626           Televisa         00887           Tevion         01409           00847, 00853, 01234           Televisa         00847, 00853, 01046, 01175, 01291, 01662           Tivo         01142, 01442           Tonna         01611           Topfield         01206           Toshiba         01284, 01749           Trevi         01251           Omeson         00853, 01251, 01241           Triax         01291, 01413, 01611, 01626           Twinner         01611           UEC         00879, 01356           United         01251           Universum         00173, 01251           Variosat         00173           VE		01413
TBoston         01251, 02418           Teac         01251           Technical         01626           Technika         01284           Technosat         01206           Techwood         01284, 01626           Techwood         01284, 01626           Telestar         01251, 01409, 01611           Telefonica         02527           Telestar         01100, 01195, 01251, 01334, 01626           Televes         01300, 01334           Televisa         00887           Tevion         01409           00847, 00853, 01046, 01175, 01291, 01662           Tivo         01142, 01442           Tonna         01611           Topfield         01206           Toshiba         01284, 01749           Trevi         01251           Univarian         01611           UEC         00879, 01356           United         01251           Universum         00173, 01251           Variosat         00173           VEA         02418           Vestel         01251, 01284           Vision         01626           Visiosat         01413, 01457           Vitecom         01		01334
Teac         01251           Technical         01626           Technika         01284           Technosat         01206           Techwood         01284, 01626           TELE System         01251, 01409, 01611           Telefonica         02527           O1100, 01195, 01251, 01334, 01626           Televes         01300, 01334           Televisa         00887           Tevion         01409           O0847, 00853, 01046, 01175, 01291, 01662           Tivo         01142, 01442           Tonna         01611           Topfield         01206           Toshiba         01284, 01749           Trevi         01251           O0853, 01251, 01291, 01413, 01611, 01626           Twinner         01611           UEC         00879, 01356           United         01251           Universum         00173, 01251           Variosat         00173           VEA         02418           Vestel         01251, 01284           Vision         01626           Visiosat         01413, 01457           Vitecom         01413           Wavelength         01413 </td <td></td> <td>01251, 02418</td>		01251, 02418
Technika         01284           TechniSat         01100, 01195           Technosat         01206           Techwood         01284, 01626           TELE System         01251, 01409, 01611           Telefonica         02527           01100, 01195, 01251, 01334, 01626           Televes         01300, 01334           Televisa         00887           Tevion         01409           00847, 00853, 01046, 01175, 01291, 01662           Tivo         01142, 01442           Tonna         01611           Topfield         01206           Toshiba         01284, 01749           Trevi         01251           Omessa, 01251, 01291, 01413, 01611, 01626           Twinner         01611           UEC         00879, 01356           United         01251           Universum         00173, 01251           Variosat         00173           VEA         02418           Vestel         01251, 01284           Vision         01626           Visiosat         01413           Volcasat         02418           Wavelength         01413           Wharfedale         01284	Teac	
TechniSat         01100, 01195           Technosat         01206           Techwood         01284, 01626           TELE System         01251, 01409, 01611           Telefonica         02527           Olion, 01195, 01251, 01334, 01626         01251, 01334, 01626           Televes         01300, 01334           Televisa         00887           Tevion         01409           Oward, 00853, 01046, 01175, 01291, 01662           Tivo         01142, 01442           Tonna         01611           Topfield         01206           Toshiba         01284, 01749           Trevi         01251           Oward         00853, 01251, 01291, 01413, 01611, 01626           Twinner         01611           UEC         00879, 01356           United         01251           Universum         00173, 01251           Variosat         00173           VEA         02418           Vestel         01251, 01284           Vision         01626           Visiosat         01413, 01457           Vitecom         01413           Volcasat         02418           Wavelength         01413      <	Technical	01626
Technosat         01206           Techwood         01284, 01626           TELE System         01251, 01409, 01611           Telefonica         02527           01100, 01195, 01251, 01334, 01626           Televes         01300, 01334           Televisa         00887           Tevion         01409           00847, 00853, 01046, 01175, 01291, 01662           Tivo         01142, 01442           Tonna         01611           Topfield         01206           Toshiba         01284, 01749           Trevi         01251           00853, 01251, 01291, 01413, 01611, 01626           Twinner         01611           UEC         00879, 01356           United         01251           Universum         00173, 01251           Variosat         00173           VEA         02418           Vestel         01251, 01284           Vision         01626           Visiosat         01413, 01457           Vitecom         01413           Volcasat         02418           Wavelength         01413           Wharfedale         01284	Technika	01284
Techwood         01284, 01626           TELE System         01251, 01409, 01611           Telefonica         02527           01100, 01195, 01251, 01334, 01626           Televes         01300, 01334           Televisa         00887           Tevion         01409           00847, 00853, 01046, 01175, 01291, 01662           Tivo         01142, 01442           Tonna         01611           Topfield         01206           Toshiba         01284, 01749           Trevi         01251           00853, 01251, 01291, 01413, 01611, 01626         00879, 01356           United         01251           Universum         00173, 01251           Variosat         00173           VEA         02418           Vestel         01251, 01284           Vision         01626           Visiosat         01413, 01457           Vitecom         01413           Volcasat         02418           Wavelength         01413           Wharfedale         01284	TechniSat	01100, 01195
TELE System 01251, 01409, 01611  Telefonica 02527  Telestar 01100, 01195, 01251, 01334, 01626  Televes 01300, 01334  Televisa 00887  Tevion 01409  Thomson 01409  Thomson 01409  Tivo 01142, 01442  Tonna 01611  Topfield 01206  Toshiba 01284, 01749  Trevi 01251  Triax 01291, 01662  Twinner 01611  UEC 00879, 01356  United 01251  Universum 00173, 01251  Variosat 00173  VEA 02418  Vestel 01251, 01284  Vision 01626  Visiosat 01413, 01457  Vitecom 01413  Volcasat 02418  Wavelength 01413  Wharfedale 01284	Technosat	01206
TELE System 01251, 01409, 01611  Telefonica 02527  Telestar 01100, 01195, 01251, 01334, 01626  Televes 01300, 01334  Televisa 00887  Tevion 01409  Thomson 01409  Thomson 01409  Tivo 01142, 01442  Tonna 01611  Topfield 01206  Toshiba 01284, 01749  Trevi 01251  Triax 01291, 01662  Twinner 01611  UEC 00879, 01356  United 01251  Universum 00173, 01251  Variosat 00173  VEA 02418  Vestel 01251, 01284  Vision 01626  Visiosat 01413, 01457  Vitecom 01413  Volcasat 02418  Wavelength 01413  Wharfedale 01284	Techwood	01284, 01626
Telefonica 02527	TELE System	
Telestar 01100, 01195, 01251, 01334, 01626  Televes 01300, 01334  Televisa 00887  Tevion 01409	TELE System	01611
Telestar 01251, 01334, 01626  Televes 01300, 01334  Televisa 00887  Tevion 01409	Telefonica	
Televes 01300, 01334 Televisa 00887 Tevion 01409		
Televes         01300, 01334           Televisa         00887           Tevion         01409           00847, 00853, 01046, 01175, 01291, 01662           Tivo         01142, 01442           Tonna         01611           Topfield         01206           Toshiba         01284, 01749           Trevi         01251           00853, 01251, 01291, 01413, 01611, 01626           Twinner         01611           UEC         00879, 01356           United         01251           Universum         00173, 01251           Variosat         00173           VEA         02418           Vestel         01251, 01284           Vision         01626           Visiosat         01413, 01457           Vitecom         01413           Wavelength         01413           Wharfedale         01284	Telestar	1
Televisa         00887           Tevion         01409           00847, 00853,         01046, 01175,           01291, 01662         01291, 01662           Tivo         01142, 01442           Tonna         01611           Topfield         01206           Toshiba         01284, 01749           Trevi         01251           00853, 01251,         01291, 01413,           01611, 01626         01611           UEC         00879, 01356           United         01251           Universum         00173, 01251           Variosat         00173           VEA         02418           Vestel         01251, 01284           Vision         01626           Visiosat         01413, 01457           Vitecom         01413           Volcasat         02418           Wavelength         01413           Wharfedale         01284	Tolovoo	
Tevion         01409           00847, 00853, 01046, 01175, 01291, 01662         01046, 01175, 01291, 01662           Tivo         01142, 01442           Tonna         01611           Topfield         01206           Toshiba         01284, 01749           Trevi         01251           00853, 01251, 01291, 01413, 01611, 01626           Twinner         01611           UEC         00879, 01356           United         01251           Universum         00173, 01251           Variosat         00173           VEA         02418           Vestel         01251, 01284           Vision         01626           Visiosat         01413, 01457           Vitecom         01413           Volcasat         02418           Wavelength         01413           Wharfedale         01284		
Thomson 00847, 00853, 01046, 01175, 01291, 01662  Tivo 01142, 01442  Tonna 01611  Topfield 01206  Toshiba 01284, 01749  Trevi 01251  00853, 01251, 01291, 01413, 01611, 01626  Twinner 01611  UEC 00879, 01356  United 01251  Universum 00173, 01251  Variosat 00173  VEA 02418  Vestel 01251, 01284  Vision 01626  Visiosat 01413, 01457  Vitecom 01413  Volcasat 02418  Wavelength 01413  Wharfedale 01284		
Thomson 01046, 01175, 01291, 01662  Tivo 01142, 01442  Tonna 01611  Topfield 01206  Toshiba 01284, 01749  Trevi 01251  00853, 01251, 01291, 01413, 01611, 01626  Twinner 01611  UEC 00879, 01356  United 01251  Universum 00173, 01251  Variosat 00173  VEA 02418  Vestel 01251, 01284  Vision 01626  Visiosat 01413, 01457  Vitecom 01413  Volcasat 02418  Wavelength 01413  Wharfedale 01284	TOVION	
Tivo 01291, 01662 Tivo 01142, 01442 Tonna 01611 Topfield 01206 Toshiba 01284, 01749 Trevi 01251  Triax 00853, 01251, 01291, 01413, 01611, 01626 Twinner 01611 UEC 00879, 01356 United 01251 Universum 00173, 01251 Variosat 00173 VEA 02418 Vestel 01251, 01284 Vision 01626 Visiosat 01413, 01457 Vitecom 01413 Volcasat 02418 Wavelength 01413 Wharfedale 01284	Thomson	
Tivo         01142, 01442           Tonna         01611           Topfield         01206           Toshiba         01284, 01749           Trevi         01251           00853, 01251, 01291, 01413, 01611, 01626           Twinner         01611           UEC         00879, 01356           United         01251           Universum         00173, 01251           Variosat         00173           VEA         02418           Vestel         01251, 01284           Vision         01626           Visiosat         01413, 01457           Vitecom         01413           Volcasat         02418           Wavelength         01413           Wharfedale         01284		
Topfield         01206           Toshiba         01284, 01749           Trevi         01251           00853, 01251,           Triax         01291, 01413,           01611, 01626           Twinner         01611           UEC         00879, 01356           United         01251           Universum         00173, 01251           Variosat         00173           VEA         02418           Vestel         01251, 01284           Vision         01626           Visiosat         01413, 01457           Vitecom         01413           Volcasat         02418           Wavelength         01413           Wharfedale         01284	Tivo	
Toshiba         01284, 01749           Trevi         01251           00853, 01251, 01291, 01413, 01611, 01626           Twinner         01611           UEC         00879, 01356           United         01251           Universum         00173, 01251           Variosat         00173           VEA         02418           Vestel         01251, 01284           Vision         01626           Visiosat         01413, 01457           Vitecom         01413           Volcasat         02418           Wavelength         01413           Wharfedale         01284	Tonna	01611
Trevi         01251           00853, 01251,         01291, 01413,           01291, 01413,         01611, 01626           Twinner         01611           UEC         00879, 01356           United         01251           Universum         00173, 01251           Variosat         00173           VEA         02418           Vestel         01251, 01284           Vision         01626           Visiosat         01413, 01457           Vitecom         01413           Volcasat         02418           Wavelength         01413           Wharfedale         01284	Topfield	01206
Triax 00853, 01251, 01291, 01413, 01611, 01626  Twinner 01611  UEC 00879, 01356  United 01251  Universum 00173, 01251  Variosat 00173  VEA 02418  Vestel 01251, 01284  Vision 01626  Visiosat 01413, 01457  Vitecom 01413  Volcasat 02418  Wavelength 01413  Wharfedale 01284	Toshiba	01284, 01749
Triax 01291, 01413, 01611, 01626  Twinner 01611  UEC 00879, 01356  United 01251  Universum 00173, 01251  Variosat 00173  VEA 02418  Vestel 01251, 01284  Vision 01626  Visiosat 01413, 01457  Vitecom 01413  Volcasat 02418  Wavelength 01413  Wharfedale 01284	Trevi	01251
O1611, 01626		
Twinner         01611           UEC         00879, 01356           United         01251           Universum         00173, 01251           Variosat         00173           VEA         02418           Vestel         01251, 01284           Vision         01626           Visiosat         01413, 01457           Vitecom         01413           Volcasat         02418           Wavelength         01413           Wharfedale         01284	Triax	
UEC         00879, 01356           United         01251           Universum         00173, 01251           Variosat         00173           VEA         02418           Vestel         01251, 01284           Vision         01626           Visiosat         01413, 01457           Vitecom         01413           Volcasat         02418           Wavelength         01413           Wharfedale         01284	<del>_</del> .	<del>                                     </del>
United         01251           Universum         00173, 01251           Variosat         00173           VEA         02418           Vestel         01251, 01284           Vision         01626           Visiosat         01413, 01457           Vitecom         01413           Volcasat         02418           Wavelength         01413           Wharfedale         01284		
Universum         00173, 01251           Variosat         00173           VEA         02418           Vestel         01251, 01284           Vision         01626           Visiosat         01413, 01457           Vitecom         01413           Volcasat         02418           Wavelength         01413           Wharfedale         01284		
Variosat         00173           VEA         02418           Vestel         01251, 01284           Vision         01626           Visiosat         01413, 01457           Vitecom         01413           Volcasat         02418           Wavelength         01413           Wharfedale         01284		ļ
VEA         02418           Vestel         01251, 01284           Vision         01626           Visiosat         01413, 01457           Vitecom         01413           Volcasat         02418           Wavelength         01413           Wharfedale         01284		
Vestel         01251, 01284           Vision         01626           Visiosat         01413, 01457           Vitecom         01413           Volcasat         02418           Wavelength         01413           Wharfedale         01284		
Vision         01626           Visiosat         01413, 01457           Vitecom         01413           Volcasat         02418           Wavelength         01413           Wharfedale         01284	Carrier	
Visiosat         01413, 01457           Vitecom         01413           Volcasat         02418           Wavelength         01413           Wharfedale         01284		
Vitecom         01413           Volcasat         02418           Wavelength         01413           Wharfedale         01284		L
Volcasat 02418 Wavelength 01413 Wharfedale 01284		
Wavelength 01413 Wharfedale 01284		<del></del>
Wharfedale 01284		L.
VVISI 00173		
	44191	100173

Satellite Set Top Box	
Worldsat	01251
Woxter	02418
Xsat	00847, 01323
Xtreme	01300
Yakumo	01413
Yes	00887
Zehnder	01251, 01334, 01413, 01631

SAT/PVR Combi	
SAT/PVR Combi	
	T
@sat	01300
Amstrad	01175
Atsat	01300
Bell ExpressVu	00775
British Sky	01175
Broadcasting	01177
BskyB	01175
Bush	01645
Cyfrowy Polsat	02527
Digifusion	01645
DigiQuest	01300
DirecTV	00099, 00639,
D11 GO 1 A	01142, 01377, 01442
Dish Network	
System	00775
Dishpro	00775
Dream Multimedia	01237
Echostar	00775, 02527
Edision	01631
Expressvu	00775
Foxtel	01356
Hughes Network Systems	01142, 01442
	01176, 01427,
Humax	01675, 01808,
	02144
Kaon	01300
Kathrein	01561
Maximum	01334
Mediacom	01206
MySky	01356, 01693
NEOTION	01334
Pace	01175, 01356, 01423, 01693
Panasonic	01304
Philips	00099, 01142,
	01442
Premier	01675
Samsung	01175, 01206, 01442
Sat Control	01300
Schneider	01206
Sedea Electronique	01206
SKY	01175, 01693
·	02299
	01175, 01334
SKY PerfecTV!	
SKY PerfecTV! Skyplus	
SKY PerfecTV! Skyplus Sony	00639, 02299 01300
SKY PerfecTV! Skyplus Sony Stream System Strong	00639, 02299
SKY PerfecTV! Skyplus Sony Stream System Strong	00639, 02299 01300
SKY PerfecTV! Skyplus Sony Stream System	00639, 02299 01300 01300

SAT/PVR Combination	
02527	
01195	
01175	
01142, 01442	
01206	
01300	

Topfield	01206
Xtreme	01300
Television	
A.R. Systems	10037, 10556
Accent	10037
Acer	11339
ACCI	
Acoustic Solutions	11037, 11523, 11667
Action	10650
Addison	10653
AEG	11037, 11324
Aiko	10037
Aim	10037, 10499
	10037, 10178,
A1	10208, 10556,
Akai	10702, 10714,
	10715, 10812, 11675
Akiba	10037
Akito	10037
	10037, 10171, 10668, 10714,
Akura	11037, 11363,
	11667
Alba	10037, 10668, 10714, 11037
Allstar	10037
7 110101	10037, 10171,
Amstrad	11037
Anam	10037
Anam National	10037, 10650
Anitech	10037
Ansonic	10037, 10668
Ansonic	10178, 10625,
AOC	11365
Ardem	10037, 10714
Arena	10037, 10714
Aristona	10037, 10556
ART	11037
Art Mito	11585
Asberg	10037
Astra	10037
ATD	10698
Atlantic	10037
Audiosonic	10037, 10714,
	10715, 11675
Audioworld	10698
Aventura	10171
Axxon	10714
Baird	10208
Bang & Olufsen	10565
Barco	10556
Basic Line	10037, 10556,
Dasic Lille	10668, 11037
Baur	10037, 10195,
Daui	10512
Beaumark	10178
Reijing	10208, 10226,
Beijing	10812

Television	_
Beko	10037, 10714,
	10715, 11652
Belson	10698
Belstar	11037
BenQ	11756
Beon	10037
Berthen	10668
Bestar	10037
Black Diamond	11037
Blaupunkt	10195 10037, 10499,
	10037, 10499,
D	10668, 10714,
Blue Sky	10715, 11037,
	11254, 11363,
	11652, 11709
Boca	11652
Boman	11324
Bork	11363
BPL	10037, 10208
Brandt	10560, 10625, 10714
Brimax	11709
Brinkmann	10037, 10668
Brionvega	10037, 10008
Briorivega	10037, 10208,
	10556, 10668,
Bush	10698, 10714,
	11037, 11652,
	11667
Byd:sign	12140, 12209
Cameron	11523
Camper	10037
Carad	10668, 11037
Carena	10037
Carrefour	10037
Cascade	10037 10037
Casio Cathay	10037
CCE	10037
Centrum	11037
Centurion	10037
Changhong	10508
Chun Yun	11756
Clarivox	10037
Classic	10499
01 : :	10037, 10714,
Clatronic	11324
Clayton	11037
Condor	10037
Conia	11523
Conrowa	10698
Contec	10037
Cosmel	10037
	10037, 10208, 10668, 10714,
Crown	
	10715, 11037, 11652
СТХ	11756
Curtis Mathes	
D-Vision	10702, 11661 10037, 10556
- VIOIOII	10037, 10336
D	10499, 10556,
Daewoo	10634, 11661,
	12098

Television	
Dansai	10037, 10208
_	10714, 10715,
Dantax	11037, 11652
Datsura	10208
Dawa	10037
Daytron	10037
	10208
De Graaf	
Decca	10037
Dell	11178, 11264
Denver	10037, 11709
Desmet	10037
Diamant	10037
Diamond	10698
Dick Smith	10698
Electronics	10090
Digatron	10037
Digihome	11667
Digiline	10037, 10668
Digitek	11709
Digitor	10037, 10698
Digitor	10037, 10090
DL	11363
DMTech	12001
Domeos	10668
Drean	10037
DSE	10698
Dual	10037, 11037
Durahwand	10171, 10178,
Durabrand	11652
Dux	10037
DX Antenna	11817, 13817
Dynatron	10037
Dynex	12049
e-motion	11709
	11324
E:max	
Easy Living	11666, 11709
ECE	10037
Elbe	10037, 10556
Electrograph	11755
Elektra	11661
Elfunk	11037
ELG	10037
Elin	10037
Elite	10037
	10037, 10171,
_	10178, 10668,
Emerson	10714, 11394,
	11661, 11864
Envision	11365
Erres	10037
ESA	10171, 10812
ESC	10037
Euroman	10037
Europa	10037
- 1	10037
Europhon	
Europhon Evesham	11248, 11667
	11248, 11667 11756
Evesham	
Evesham Evolution	11756
Evesham Evolution Excello	11756 11037 10037 10037, 10195.
Evesham Evolution Excello	11756 11037

Television		Televi
Television	110027 10171	HB
Fidelity	10037, 10171, 10512	HCM
Finlandia	10208	Hewlett
- I III arraia	10037, 10556,	Highlin
Finlux	10714, 10715,	Hinari
	11248, 11667	
	10037, 10208,	Hisawa
Firstline	10556, 10668,	Hisens
riisuirie	10714, 11037,	HISCHS
	11363	
Fisher	10208	
Flint	10037	
Formenti	10037	Hitachi
Fraba	10037	
Friac	10037, 10499	
Fujicom	11709	
Fujitsu	10809	Hitachi
······································	10809, 11248,	Hitec
Fujitsu Siemens	11666	Hoeher
	10171, 10668,	Hornyp
Eupoi	10714, 11037,	HP
Funai	11394, 11666,	Hugoso
	11817	Humax
G-Hanz	11363	
Gaba	11037	Hypsor
Galaxi	10037	<b>,</b> ,
Galaxis	10037	Hyunda
Gateway	11755, 11756	Iberia
	10178, 10560,	ICE
GE	10625, 11454	Imperia
GEC	10037	Indiana
Genesis	10037	Ingeler
Genexxa	10037	Inno Hi
GFM	10171, 11864	
Goldfunk	10668	Innova
GOIGIGITK		Insignia
GoldStar	10037, 10178, 10714, 10715	
	10037, 10499,	Integra
	10556, 10560,	Interbu
Goodmans	10625, 10634,	Interfur
	10668, 10714,	Interna
	11037, 11667	Intervis
Gradiente	10037	Irradio
Graetz	10714	IRT
_	10037, 10208,	Isukai
Granada	10226, 10560	ITS
	10037, 10556,	ITT
Grandin	10668, 10714,	ITT No
-	10715, 11037	ITV
	10037, 10195,	JGC
Grundig	10556, 11223,	Jinfeng
J	11667	Juliend
GVA	11363	Jinxing
H & B	12001	
	10037, 10508,	JMB
Haier	10698	Jubilee
Hallmark	10178	Jubliee
Hankook	10178	
	10037, 10499,	JVC
11	10556, 10625,	
Hanseatic	10634, 10714,	Kaisui
	12001	Karche
Hantarex	10037	Kathre
Hantor	10037	Naume
Harwood	10037	Kendo
Hauppauge	10037	Kenne
·······································	110001	L'GIII 16

Television HB	11324
HCM	10037
Hewlett Packard	11494
Highline	10037
Hinari	10037, 10208
Hisawa	10714
	10208, 10508,
Hisense	10556, 11363,
	12098
	10037, 10150,
	10178, 10499,
	10508, 10578,
Hitachi	10634, 11037,
	11576, 11585,
	11643, 11667,
UPA Int Francis	11691
Hitachi Fujian	10150
Hitec	10698
Hoeher	10714
Hornyphon	10037
HP	11494
Hugoson	11666
Humax	11295
	10037, 10556,
Hypson	10668, 10714,
<b>71</b>	10715, 11037
Hyundai	11523
Iberia	10037
ICE	10037
	10037
Imperial	
Indiana 	10037
Ingelen	10714
Inno Hit	11037, 11585
Innova	10037
Insignia	10171, 11564,
ii isigi iia	12049
Integra	11807
Interbuy	10037
Interfunk	10037, 10512
Internal	10556
Intervision	10037
Irradio	10037
IRT	10698, 11661
	<u> </u>
Isukai	10037
ITS	10037
ITT	10208
ITT Nokia	10208
	10037
ITV	10037
	11709
JGC	
JGC Jinfeng	11709 10208, 10226
JGC Jinfeng	11709
JGC Jinfeng Jinxing	11709 10208, 10226 10037, 10556, 10698
JGC Jinfeng Jinxing	11709 10208, 10226 10037, 10556,
JGC Jinfeng Jinxing JMB	11709 10208, 10226 10037, 10556, 10698 10499, 10556, 10634
JGC Jinfeng Jinxing JMB	11709 10208, 10226 10037, 10556, 10698 10499, 10556, 10634 10556
JGC Jinfeng Jinxing JMB Jubilee	11709 10208, 10226 10037, 10556, 10698 10499, 10556, 10634 10556 10508, 10650,
JGC Jinfeng Jinxing JMB Jubilee	11709 10208, 10226 10037, 10556, 10698 10499, 10556, 10634 10556 10508, 10650, 10653, 11253,
JGC Jinfeng Jinxing JMB Jubilee	11709 10208, 10226 10037, 10556, 10698 10499, 10556, 10634 10556 10508, 10650, 10653, 11253, 11428, 11601,
JGC Jinfeng Jinxing JMB Jubilee	11709 10208, 10226 10037, 10556, 10698 10499, 10556, 10634 10556 10508, 10650, 10653, 11253, 11428, 11601, 12271
JGC Jinfeng Jinxing JMB Jubilee JVC Kaisui	11709 10208, 10226 10037, 10556, 10698 10499, 10556, 10634 10556 10508, 10650, 10653, 11253, 11428, 11601, 12271 10037
JGC Jinfeng Jinxing JMB Jubilee JVC Kaisui Karcher	11709 10208, 10226 10037, 10556, 10698 10499, 10556, 10634 10556 10508, 10650, 10653, 11253, 11428, 11601, 12271 10037
JGC Jinfeng Jinxing JMB Jubilee JVC Kaisui	11709 10208, 10226 10037, 10556, 10698 10499, 10556, 10634 10556 10508, 10650, 10653, 11253, 11428, 11601, 12271 10037 10714
JGC Jinfeng Jinxing JMB Jubilee JVC Kaisui Karcher	11709 10208, 10226 10037, 10556, 10698 10499, 10556, 10634 10556 10508, 10650, 10653, 11253, 11428, 11601, 12271 10037

Television	
Kioto	10556
Kiton	10037, 10668
(LL	10037
neissel	10037, 10499, 10556
Colin	10037, 10150, 11610, 11755
Colster	10037
onka	10037, 10714
orpel	10037
Cosmos	10037
íunlun	10208, 10226
&S Electronic	10714
avis.	11037
ecson	10037
enco	10037, 11037
eyco	10037
	10037, 10178,
	10556, 10698,
.G	10714, 10715,
	11178, 11423, 11768, 11840,
	12182, 12358
iesenkotter	10037
	10037, 10668,
ifetec	10714, 11037,
	12001
ocal India TV	10208
ocal Malaysia TV	10698
odos	11037
oewe	10037, 10512, 11884
ogik	10698, 11037
ogix	10668
uma	11037
umatron	10037
ux May	10037
uxor	10208, 11037
ΧI	10178
	10037, 10195, 10512, 10634,
/ Electronic	10512, 10634,
6 - ali	10714, 11652
ladison	10037
1agnavox	11254, 11365, 11454
lagnum	10037, 10714, 10715
lanesth	10715
	10037, 10668,
lanhattan	11037, 10000,
larantz	10037, 10556
lark	10037, 10714,
ai N	10715
laster's	10499
lastro	10698
lasuda	10037
	10037, 10195,
<b>1</b> atsui	10208, 10556,
	10714, 11037, 11666, 11667
latsushita	10650
laxent	11755
	10698
leck	

Television	
	10037, 10512,
	10556, 10668,
Medion	10698, 10714, 11037, 11248,
Medion	
	11585, 11667,
	12001
Megatron	10178
MEI	11037
	10150, 10178,
Memorex	11037
Mercury	10037
Mermaid	
	10037
Metronic	10625
Metz	10037, 10195,
	10668, 11533
MGA	10150, 10178
	10037, 10668,
Micromaxx	10037, 10668, 10714, 11037,
	11324, 12001
Microspot	11614
Mikomi	11037
Minato	10037
Minerva	10195, 11248
Ministry Of Sound	11667
Minoka	10037
Mirai	11666
	10037, 10150,
	10178, 10512,
Mitsubishi	10556, 11037,
	11171, 11250
Mivar	10609
Morgan's	
	10037
MTC	10512
MTlogic	10714
Mudan	10208, 10226
Multitec	10037, 10668,
Multitec	11037
Multitech	10037
Myrica	11666
Myryad	10556
NAD	10037, 10178
Naiko	10037
Nakimura	10037
NAT	10226
	10208, 10226,
National	10508
	10178, 10499,
NEC	10508, 10653,
1120	
Nookormans	11775, 11797
Neckermann	10037, 10556
NEI	10037, 11037
NEO	11324
Netsat	10037
NetTV	11755
	10037, 10556,
Neufunk	10714
New Tech	10037, 10556
Newave	10178
Nikkai	10037
Mildesi	10714
Nikkei	
Nikko	10178
Nikko	
Nikko Noblex	10037
Nikko	

Television	
	10037, 10195,
Nordmende	10560, 10714,
	11585, 11667, 12001
Normerel	10037
Nortek	10668
Novatronic	10037
Novita	11585
Nu-Tec	10698
O.K.Line	11037, 11324
Oceanic	10208
Okano	10037
Olevia	11610, 12124
Omni	10698
Onei	11667
Onida	10653, 11253
Onimax	10714
Onkyo	11807
Onn	11667, 11709
Onyx	11709
Opera	10037
Optimus	10650
Orbit	10037
Orion	10037, 10556, 10714, 11037,
Chon	12001
Orline	10037
Ormond	10668, 11037
Osaki	10037, 10556
Osio	10037
Osume	10037
	10037, 10195,
Otto Versand	10226, 10512,
	10556
Pacific	10556, 10714, 11037, 11324
	10037, 11524
Palladium	10714
Palsonic	10037, 10698
Panama	10037
	10037, 10208,
Panasonic	10226, 10508,
	10650, 11480, 11636, 12170
Panavision	10037
1 anavision	10208, 10226,
Panda	10508, 10698
Penney	10178
Perdio	10037
Perfekt	10037
Petters	10037, 11523
Philco	10037, 10178,
	11661
	10037, 10178,
Philips	10556, 10605, 10690, 11454,
· · ······p •	11506, 11744,
	12372
Phocus	10714, 11652
Phoenix	10037
Phonola	10037, 10556
	10037, 10512,
Pioneer	10698, 11260,
	11457, 11636, 12171

Television	
Plantron	10037
Playsonic	10037, 10714, 10715, 11652
Polaroid	11523
Portland	11661
Powerpoint	10037, 10698
Prinston	10715, 11037
Profitronic	10037
Proline	10037, 10625, 10634, 11037
Dragonia	10037, 10668,
Prosonic	10714, 11324, 11709, 12001 10037, 10668,
Protech	11037
Proton	10178
ProVision	10037, 10556, 10714, 11324
Pvision	12001
Pye	10037, 10556
Qingdao	10208, 10226
Quasar	10650
- Guada	10037, 10195,
Quelle	10512, 10668,
	11037
R-Line	10037
Radiola	10037, 10556
Radiomarelli	10037
RadioShack	10037, 10178
Radiotone	10037, 10668, 11037
	10178, 10560,
	10618, 10625,
RCA	11454, 11781, 12187, 12247,
	12403
Realistic	10178
Recor	10037
Rectiligne	1.000
	10037
Redstar	10037
Reflex	10037, 10668, 11037
Relisys	11585
Remotec	10037, 10171
Reoc	10714
Revox	10037
RFT	10037
	10037, 10668,
Roadstar	10714, 10715,
	11037
Rolson	12098
Rowa	10037, 10698
Saba	10560, 10625, 10714
Sagem	10618
Saired	10037, 10668,
Salora	11037
Salora	10208
Sampo	10171, 10178, 10650, 11755
	10037, 10178,
	10208, 10226, 10556, 10618,
Samsung	
	10702, 10812,
	11060, 11312, 11619, 12051
	11018, 12031

Television	<del></del>
Sansui	10037, 10714, 11248, 12001
Sansui	
	10208, 10508,
Sanyo	11037, 11142,
	11585, 11667 10037, 10556
SBR	
Sceptre	11360
Schaub Lorenz	10714, 11324,
	12001
Cobmoider	10037, 10556,
Schneider	10668, 10714, 11037
Scotch	10178
Scott	10178
	1
Sears	10171, 10178
Seaway	10634
Seelver	11037
SEG	10037, 10668,
SEI	11037
<u> </u>	10037
Sei-Sinudyne Serie Dorada	10037
	10178
Shanghai	10208, 10226
Charn	10650, 10653,
Sharp	10818, 11165, 11659
Shintoshi	10037
	i
Shivaki	10037, 10178
Siam	10037
Siemens	10037, 10195 10037, 10556
Siera	
Silva	10037
Silva Schneider	10037
Silver	10715
SilverCrest	11037
Singer	10037
Sinudyne	10037
SKY	10037, 11614,
	11775
Skyworth	10037, 10698
Sliding	11324
SLX	10668
Solavox	10037
Soniko	10037
Sonitron	10208
Sonneclair	10037
Sonoko	10037
Sonolor	10208
Sontec	10037
	10037, 10650,
Sony	10810, 11167,
	11505, 11651,
Odd	11825
Soundesign	10178
Soundwave	10037, 10715,
	11037
Sowa	10178, 10226
Squareview	10171
Standard	10037, 11037,
Charlita	11709
Starlite	10037
Strato	10037
Sunny	10037
Sunstar	10037

Television	1
Sunstech	12001
Sunwood	10037
Superscan	10864
Supersonic	10208
SuperTech	10037, 10556
Supra	10178
Svasa	10208
Swisstec	11614, 11775
Sylvania	10171, 11394, 11864, 11886
Symphonic	10171
Synco	10178, 11755
Syntax	11610
Sysline	10037
Tacico	10178
Talent	10178
Tashiko	10650
Tuorinto	10037, 11248,
Tatung	11254, 11324,
J	11756
TCL	10698, 12403
TCM	10698, 12403 10714, 12001
	10037, 10171,
	10178, 10512,
Teac	10668, 10698,
leac	10714, 11037,
	11363, 11709,
	11755
Tec	10037
Tech Line	10037, 10668
Technica	11037
Technics	10556, 10650
Technika	11667
TechniSat	10556
Technisson	10714, 11652
Techno	11585
Technosonic	10499, 10556, 10625, 11324
Techvision	11709
Techwood	11037
Tecnimagen	10556
	10178, 10653,
Teco	11523
Tedelex	10208, 11709
Teknika	10150
TELE System	11585
Telecor	10037
	10037, 10560,
Telefunken	10625, 10698,
reletatiken	10702, 10714,
	11585
Telefusion	10037
Telegazi	10037
Telemeister	10037
Telesonic	10037
Telestar	10037, 10556
Teletech	10037, 10668, 11037
Teleview	10037
Tennessee	10037
10111103366	10037, 10715,
Tensai	11037
Toolo	10037, 10556,
Tesla	10714, 11037,
	11652

Television	
	10037, 10556,
Touisn	10668, 10714,
Tevion	11037, 11248,
	11585
<b>T</b> I	10037, 10560,
Thomson	10625
	10037, 10499,
Thorn	10512
Thorn-Ferguson	10499
TMK	10178
TML	11756
I IVIL	
Tokai	10037, 10668,
	11037
Tokaido	11037
Topline	10668, 11037
	10195, 10508,
	10618, 10650,
Toshiba	11037, 11169,
	11508, 11524,
	11656, 12203
TRANS-continents	10037, 10556,
THAING-COMMENTS	10668, 11037
-	10037, 10512,
Transonic	10698, 11363
Triad	10556
Trio	11248
	10037, 10556
Triumph	
TVTEXT 95	10556
Uher	10037
Ultravox	10037
UMC	11614, 11775
Unic Line	10037
	10037, 10556,
United	10714 10715
Offica	11037 11652
Universal	10714, 10715, 11037, 11652 10037, 10714
Ulliversal	10037, 10714
Linivaroum	
Universum	10512, 10618,
	10668, 11037
Univox	10037
V7 Videoseven	11666, 11755
	10037, 10668, 11037, 11585,
Vestel	11037, 11585,
	11667
Vexa	10037
	10650, 10653,
Victor	11428
Videocon	10037, 10508
	10037, 10308
VideoSystem	
Vidtech	10178
Viewsonic	10864, 10885,
	11755
Vision	10037
Vistron	11363
200	10864, 10885,
Vizio	11756, 11758,
	12209
Vortec	10037
	10037
Voxson	
VU	12098
Walker	11667
Waltham	10037, 10668,
Waltham	11037
Wards	10178
Watson	10037, 10668, 10714, 11037

Television	
Wega	10037
Welltech	10714, 11652
Weltstar	11037
Westinghouse	10885, 11577, 11755
Wharfedale	10037, 10556, 11324, 11667
White Westinghouse	10037, 11661
Wilson	10556
Windsor	10668, 11037
Windy Sam	10556
Wintel	10714
World-of-Vision	12001
Wyse	11365
Xenius	10634
Xiahua	10698
XLogic	10698
Xrypton	10037
Yamaha	10650, 11576
Yamishi	10037
Yokan	10037
Yoko	10037
YU-MA-TU	10037
Zenith	10178, 11661
Zepto	11585
Zonda	10698
VCR	
Aim	20348, 20642
	20032, 20037,
Aiwa	20348, 21137
Akai	20037, 20348, 20642
Alba	20081, 20348
Allegro	21137
Allstar	20081
American High	20035
Anam	20037
Anam National	21562
Aristona	20081
ASA	20037, 20081
Asuka	20037, 20081
Audiolab	20081
Audiovox	20037
Awa	20037, 20642
Black Diamond	20642
Blaupunkt	20081
Blue Sky	20037, 20348, 20642, 21137
Brinkmann	20348
Broksonic	20348
Bush	20081, 20348, 20642
Calix	20037
Canon	20035
Carena	20081
Carver	20081
Changhong	20081
CineVision	21137
Citizen	20037
Craig	20037
Crown	20037

VCR	
Curtis Mathes	20035, 20060
Cyrus	20081
Daewoo	20642, 21137
Dantax	20348
De Graaf	20081
Decca	20067, 20081
Diamant	20037
Diamond	20348
Dick Smith	
Electronics	20642
Digitor	20642
DirecTV	20739
DSE	20642
Dual	20081, 20348
Dumont	20081
Durabrand	20642
Electrohome	20037
Electrophonic	20037
Emerex	20037
	20035, 20037
Emerson	
ESA	21137
Ferguson	20348
Finlandia	20037, 20081
Finlux	20081
Firstline	20037, 20348,
	21137
Flint	20348
Fuji	20033, 20035
Fujitsu General	20037
GE	20035, 20060
GEC	20081
General Technic	20348
Go Video	20614, 21137
GoldStar	20037, 21137
Goodmans	20037, 20081,
***************************************	20348, 20642
GPX	20037
Gradiente	21137
Granada	20037, 20081
Grandin	20037
Grundig	20081, 20348
Haaz	20348
Hanseatic	20037, 20081
Harman/Kardon	20081
Hitachi	20037, 20081
Hoeher	20642
Hornyphon	20081
Hughes Network	
Systems	20739
Humax	20739
Hypson	20037
Instant Replay	20035
Interbuy	20037
Interfunk	20037
International	20037, 20642
Intervision	20037, 20042
II ILGI VISIUII	
Irradio	20037, 20081, 21137
ITV	20037
	20037
JMB	
JVC	20067, 20081, 21279
Kambrook	20037
Nambiook	20001

VCR	
Karcher	20081, 20642
KEC	20037
Kendo	20037, 20348, 20642
Kenwood	20042
Kioto	20348
Kneissel	20037, 20348
Kodak	20035, 20037
LG	20037, 21137
Lifetec	20348
Liletec	
Loewe	20037, 20081, 21062, 21562
Lumatron	21137
Lunatron	21137
LXI	20037
M Electronic	20037
Magnavox	20035, 20081, 20642
Magnum	20642
Manesth	20081
Marantz	20035, 20081
Marta	20037
Mascom	20642
Mastec	20642
Matsui	20037, 20348
Matsushita	20035
Mediator	20081
Medion	20348, 20642
MEI	20035
Memorex	20035, 20037, 20348
Metronic	20081
	20037, 20081,
Metz	21062, 21562
Micormay	20348
Mitsubishi	20067, 20081, 20642
Motorolo	
Motorola	20035
Multitec	20037
Myryad	20081
Naiko	20348, 20642
Nebula Electronics	20033
NEC	20035, 20037,
NEC	20067, 21137, 21287
Neckermann	
	20081
Neufunk	21137
Newave	20037
Nikko	20037
Nokia	20081
Nordmende	20067, 20642
Oceanic	20081
Okano	20348
Olympus	20035
Onimax	20642
	20222
Onkyo	2222 21222
Onkyo Optimus	20037, 21062
<del></del>	20037, 21062
Optimus	
Optimus Orion	20348
Optimus Orion Osaki Otto Versand	20348 20037 20081
Optimus Orion Osaki Otto Versand Pacific	20348 20037 20081 20348, 20642
Optimus Orion Osaki Otto Versand	20348 20037 20081

VCR	
	20035, 20614,
Panasonic	20616, 21062,
	21562
Penney	20035, 20037
Philco	20035
Philips	20035, 20081,
-	20739
Phonola	20081
Pilot	20037
Pioneer	20067, 20081
Polk Audio	20081
Profitronic	20081
Proline	20642
Proscan	20060
Protech	20081
Pye	20081
Qisheng	20060
Quasar	20035
Quasai	20033
Radialva	20037, 20081
Radiola	20081
Radionette	20037, 21137
RadioShack	20037
Radix	20037
Randex	20037
RCA	20035, 20060
Realistic	20035, 20037
Reoc	20348
ReplayTV	20614, 20616
Rio	21137
Roadstar	20037, 20081
Saisho	20348
Sampo	20037
Samsung	20739
Sansui	20067, 20348
Carisar	20067, 20348,
Sanyo	21137
SBR	20081
Schaub Lorenz	20348
Scriado Lorenz	20037, 20081,
Schneider	20348, 20642,
Connected	21137
Sears	20035, 20037
SEG	20081, 20642
SEI	20081
Sei-Sinudyne	20081
Seleco	
	20037
Sharp	20037, 21137
Shivaki	20037
Siemens	20037, 20081
Siera	20081
Silva	20037
Silva Schneider	21137
SilverCrest	20642
Singer	20348
Sinudyne	20081
Skantic	20348
Smaragd	20348
	20614, 20616,
Sonic Blue	21137
Sontec	20037
Sonwa	20642

VCR	
Sony	20032, 20033,
	20035, 20636
Soundwave	20037, 20348
Sunkai	20348
Supra	20037, 20348
Sylvania	20035, 20081
Tashiko	20037, 20081
Tatung	20067, 20081,
	20348
Tchibo	20348
TCM	20348
Teac	20037, 20642
Technics	20035, 20081
TechniSat	20348
Teco	20035, 20037
Todolov	20037, 20348,
Tedelex	20642
Teknika	20035, 20037
Telefunken	20642
Telestar	20037
Tensai	20037
Tesla	20081
Tevion	20348, 20642
Thomson	20060, 20067
Thorn	20037
Tivo	20636, 20739
Tokai	20037
Topline	20348
Toshiba	20067, 20081
Totevision	20037
Tradex	20081
United	20348
Universum	20037, 20081,
	20348, 21137
Victor	20067
Videomagic	20037
Wards	20033, 20035,
	20060, 20081
Watson	20081, 20642
Weltblick	20037
Wharfedale	20642
World	20348
XR-1000	20035
Yoko	20037
Zenith	20033, 21137
ZX	20348
PVR	
DirecTV	20739
Go Video	20614
Hughes Network	
Systems	20739
Humax	20739
JVC	21279
Panasonic	20614, 20616
Philips	20739
ReplayTV	20614, 20616
Samsung	20739
Sonic Blue	20614, 20616
Sony	20636
Tivo	20636, 20739

TV/VCR Combination		
Aiwa	21137	
Amstrad	10171	
Curtis Mathes	20035	
Ferguson	10625	
Fidelity	10171	
GE	20035, 20060	
GoldStar	10037, 20037	
Gradiente	21137	
Ciadiente	10037, 10195,	
Grundig	10556, 20081	
Hypson	20037	
Kambrook	20037	
LG	10178, 20037	
Loewe	20037	
Magnavox	20081	
Memorex	20037	
Mitsubishi	10556, 20081	
Panasonic	20035	
Penney	20035, 20037	
	10037, 10556,	
Philips	20081	
Quasar	20035	
Radiola	10556, 20081	
RCA	20035, 20060	
Saba	10625	
Schneider	10037, 10556,	
Scrineider	20081	
Sears	20037	
Sharp	20037	
Shivaki	20037	
Siemens	10037, 20081	
Sony	11505, 20032	
Supra	20348	
Sylvania	20081	
Teac	10171, 10178,	
	20037, 20642	
Technics	10556, 20081	
Thomson	10625	
DVD		
DVD		

DVD	
3D LAB	30539
Accurian	33002
Acoustic Solutions	30713
AEG	32173, 33002
AFK	31152
Aiwa	30533
Akai	33002
Alba	30539, 30713
Allegro	30869
Amstrad	30713
Aristona	30539, 30646
Audix	30713
Autovox	30713
Basic Line	30713
Bel Canto Design	31571
Black Diamond	30713
Blue Parade	30571
Blue Sky	30713
Brandt	30503
Bush	30713
C-Tech	31152
Centrum	30713, 33002
Changhong	30627
	·

DVD	
Cinetec	30713
CineVision	30869
CJ Digital	32173
Clatronic	33002
Clayton	30713
Contel	33012
Crown	30713
Daewoo	30869
Dantax	30539, 30713
_	30490, 30634,
Denon	31634, 33010
Dick Smith	01150
Electronics	31152
Digihome	30713
DigiLogic	30713
Digital	32173
Disney	31270, 33002
DSE	31152, 33002
Dual	30713
Durabrand	30713, 33002
eBench	31152
Elfunk	30713
Elite	31152
Elta	32173
Emerson	33002
EuroLine	33002
Ferguson	30713
Finlux	33003
	30713, 30869
Firstline	
Fisher	30670
Funai	33002
^_	00000
GE	30522
GFM	33002
	33002 31152
GFM	33002 31152 30869, 31075,
GFM Global Sphere Go Video	33002 31152 30869, 31075, 33003
GFM Global Sphere Go Video GoldStar	33002 31152 30869, 31075, 33003 33003
GFM Global Sphere Go Video GoldStar Goodmans	33002 31152 30869, 31075, 33003 33003 30713, 31152
GFM Global Sphere Go Video GoldStar Goodmans GPX	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003
GFM Global Sphere Go Video GoldStar Goodmans	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173
GFM Global Sphere Go Video GoldStar Goodmans GPX	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173 30539, 30670,
GFM Global Sphere Go Video GoldStar Goodmans GPX Grandin Grundig	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173 30539, 30670, 30713
GFM Global Sphere Go Video GoldStar Goodmans GPX Grandin Grundig H & B	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173 30539, 30670, 30713 30713, 32173
GFM Global Sphere Go Video GoldStar Goodmans GPX Grandin Grundig H & B Haaz	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173 30539, 30670, 30713 30713, 32173 31152
GFM Global Sphere Go Video GoldStar Goodmans GPX Grandin Grundig H & B Haaz Hanseatic	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173 30539, 30670, 30713, 32173 30713, 32173 31152 33003
GFM Global Sphere Go Video GoldStar Goodmans GPX Grandin Grundig H & B Haaz Hanseatic Harman/Kardon	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173 30539, 30670, 30713, 32173 31152 33003 30582, 31229
GFM Global Sphere Go Video GoldStar Goodmans GPX Grandin Grundig H & B Haaz Hanseatic	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173 30539, 30670, 30713 30713, 32173 31152 33003 30582, 31229 30713
GFM Global Sphere Go Video GoldStar Goodmans GPX Grandin Grundig H & B Haaz Hanseatic Harman/Kardon	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173 30539, 30670, 30713 30713, 32173 31152 33003 30582, 31229 30713 30573, 30713,
GFM Global Sphere Go Video GoldStar Goodmans GPX Grandin Grundig H & B Haaz Hanseatic Harman/Kardon Henss Hitachi	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173 30539, 30670, 30713 30713, 32173 31152 33003 30582, 31229 30713 30573, 30713, 31664
GFM Global Sphere Go Video GoldStar Goodmans GPX Grandin Grundig H & B Haaz Hanseatic Harman/Kardon Henss Hitachi Hoeher	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173 30539, 30670, 30713 30713, 32173 31152 33003 30582, 31229 30713 30573, 30713, 31664 30713, 32173
GFM Global Sphere Go Video GoldStar Goodmans GPX Grandin Grundig H & B Haaz Hanseatic Harman/Kardon Henss Hitachi Hoeher HotMedia	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173 30539, 30670, 30713 30713, 32173 31152 33003 30582, 31229 30713 30573, 30713, 31664 30713, 32173 31152
GFM Global Sphere Go Video GoldStar Goodmans GPX Grandin Grundig H & B Haaz Hanseatic Harman/Kardon Henss Hitachi Hoeher HotMedia Humax	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173 30539, 30670, 30713 30713, 32173 31152 33003 30582, 31229 30713 30573, 30713, 31664 30713, 32173 31152 30646
GFM Global Sphere Go Video GoldStar Goodmans GPX Grandin Grundig H & B Haaz Hanseatic Harman/Kardon Henss Hitachi Hoeher HotMedia	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173 30539, 30670, 30713, 32173 30713, 32173 31152 33003 30582, 31229 30713, 30713, 31664 30713, 32173 31152 30646 30713
GFM Global Sphere Go Video GoldStar Goodmans GPX Grandin Grundig H & B Haaz Hanseatic Harman/Kardon Henss Hitachi Hoeher HotMedia Humax Inno Hit	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173 30539, 30670, 30713, 32173 31152 33003 30582, 31229 30713, 32173 31573, 30713, 31664 30713, 32173 31152 30646 30713 33002, 33014,
GFM Global Sphere Go Video GoldStar Goodmans GPX Grandin Grundig H & B Haaz Hanseatic Harman/Kardon Henss Hitachi Hoeher HotMedia Humax	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173 30539, 30670, 30713, 32173 30713, 32173 31152 33003 30582, 31229 30713, 30713, 31664 30713, 32173 31152 30646 30713 33002, 33014, 33025
GFM Global Sphere Go Video GoldStar Goodmans GPX Grandin Grundig H & B Haaz Hanseatic Harman/Kardon Henss Hitachi Hoeher HotMedia Humax Inno Hit Insignia	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173 30539, 30670, 30713, 32173 31152 33003 30582, 31229 30713 30573, 30713, 31664 30713, 32173 31152 30646 30713, 32173 31152 30646 30713 33002, 33014, 33025 30627, 31612,
GFM Global Sphere Go Video GoldStar Goodmans GPX Grandin Grundig H & B Haaz Hanseatic Harman/Kardon Henss Hitachi Hoeher HotMedia Humax Inno Hit	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173 30539, 30670, 30713, 32173 31152 33003 30582, 31229 30713 30573, 30713, 31664 30713, 32173 31152 30646 30713, 32173 31152 30646 30713 33002, 33014, 33025 30627, 31612, 32900, 32901,
GFM Global Sphere Go Video GoldStar Goodmans GPX Grandin Grundig H & B Haaz Hanseatic Harman/Kardon Henss Hitachi Hoeher HotMedia Humax Inno Hit Insignia	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173 30539, 30670, 30713, 32173 31152 33003 30582, 31229 30713 30573, 30713, 31664 30713, 32173 31152 30646 30713, 32173 31152 30646 30713 33002, 33014, 33025 30627, 31612, 32900, 32901, 32910
GFM Global Sphere Go Video GoldStar Goodmans GPX Grandin Grundig H & B Haaz Hanseatic Harman/Kardon Henss Hitachi Hoeher HotMedia Humax Inno Hit Insignia	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173 30539, 30670, 30713, 32173 31152 33003 30582, 31229 30713 30573, 30713, 31664 30713, 32173 31152 30646 30713, 32173 31152 30646 30713 33002, 33014, 33025 30627, 31612, 32900, 32901, 32910 30869
GFM Global Sphere Go Video GoldStar Goodmans GPX Grandin Grundig H & B Haaz Hanseatic Harman/Kardon Henss Hitachi Hoeher HotMedia Humax Inno Hit Insignia Integra	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173 30539, 30670, 30713, 32173 31152 33003 30582, 31229 30713 30573, 30713, 31664 30713, 32173 31152 30646 30713, 32173 31152 30646 30713, 32173 31152 30646 30713 33002, 33014, 33025 30627, 31612, 32900, 32901, 32910 30869 30503, 30539,
GFM Global Sphere Go Video GoldStar Goodmans GPX Grandin Grundig H & B Haaz Hanseatic Harman/Kardon Henss Hitachi Hoeher HotMedia Humax Inno Hit Insignia	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173 30539, 30670, 30713, 32173 31152 33003 30582, 31229 30713 30573, 30713, 31664 30713, 32173 31152 30646 30713, 32173 31152 30646 30713, 32173 31152 30646 30713 33002, 33014, 33025 30627, 31612, 32900, 32901, 32910 30869 30503, 30539, 30623, 30867,
GFM Global Sphere Go Video GoldStar Goodmans GPX Grandin Grundig H & B Haaz Hanseatic Harman/Kardon Henss Hitachi Hoeher HotMedia Humax Inno Hit Insignia Integra Irradio JVC	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173 30539, 30670, 30713 30713, 32173 31152 33003 30582, 31229 30713 30573, 30713, 31664 30713, 32173 31152 30646 30713 33002, 33014, 33025 30627, 31612, 32900, 32901, 32910 30869 30503, 30539, 30623, 30867, 31164, 31597
GFM Global Sphere Go Video GoldStar Goodmans GPX Grandin Grundig H & B Haaz Hanseatic Harman/Kardon Henss Hitachi Hoeher HotMedia Humax Inno Hit Insignia Integra	33002 31152 30869, 31075, 33003 33003 30713, 31152 33003 30713, 32173 30539, 30670, 30713, 32173 31152 33003 30582, 31229 30713 30573, 30713, 31664 30713, 32173 31152 30646 30713, 32173 31152 30646 30713, 32173 31152 30646 30713 33002, 33014, 33025 30627, 31612, 32900, 32901, 32910 30869 30503, 30539, 30623, 30867,

DVD	
Kenwood	30490, 30534
Lazer	32173
Lenco	30713
LG	30869, 33003
Lodos	30713
Loewe	30539, 33003,
	33018
Logik Lumatron	30713
Lunatron	30713, 33003 33003
Luxman	30573
Luxman	30713
Luxoi	30503, 30539,
Magnavox	30646, 30713, 31354, 33002
Manhattan	30713
Manage	30539, 33013,
Marantz	33015
Mark	30713
Matsui	30713
Maxim	30713
MDS	30713
Medion	30630, 31270, 33003
Memorex	31270, 32213
Metz	30571, 30713
Micromedia	30503, 30539
Micromega	30539
Microsoft	30522, 33006
Minax	30713
Mitsubishi	30713, 31521
Muvid	32173
NAD	33003, 33024
NEC	30869, 33003
Nortek	32173
Olevia	33012
	30503, 30627,
Onkyo	31612, 32900,
	32901, 32910
Орро	30575, 33021
Orion	30713
Ormond	30713
Pacific	30713
Palladium	30713
	30490, 31579,
Panasonic	31762, 33005,
Dhilas	33020
Philco	33002
	30503, 30539, 30646, 31340,
Philips	31354, 32056,
Timpo	33002, 33007,
	33016
	30571, 30631,
Pioneer	31571, 33000,
	33017
Polk Audio	30539
Presidian	33002
Proscan	30522
Proson	30713
Pye	30539, 30646
Radionette	30869, 33003
Radiotone	30713

DVD	
	30522, 30571,
RCA	30822, 32213,
	32587, 32592,
	32594, 32901
REC	30490
Redstar	31394
Rio	30869
Roadstar	30713
Rotel	30623
Saba	32173
Salora	33003
	30490, 30573,
Samsung	30820, 31075,
Cambang	31635, 32329,
	32489, 33001
Sanyo	30670, 30713
Cobmoider	30539, 30646,
Schneider	30713, 30869
Schoentech	30713
Scott	31394, 32173
SEG	30713
Semp	30503
	30630, 30713,
Sharp	30869, 33002,
	33009, 33019
Sherwood	33003
Shinsonic	30533
Silva Schneider	30869, 33003
SilverCrest	31152, 32173
Skantic	30539, 30713
SM Electronic	
	31152
Smart	30713
Sonic Blue	30869
	30533, 30864,
Sony	31033, 31070,
Cony	31431, 31633,
	33004, 33008
Soundwave	30713
Star Clusters	31152
Strato	31152
Strong	30713
	31152
Supervision	
Sylvania	30630, 32194,
	33002
Symphonic	33002
Tamashi	31394
Tandberg	30713
Targa	33003
Tchibo	33003
TCL	32587
TCM	33003
Teac	30571, 31394,
	33002, 33003
Technica	30713
Technics	30490
Techwood	30713
	<del></del>
Teletech	130713
Teletech Theta Digital	30713
Theta Digital	30571
	30571 30522
Theta Digital	30571 30522 30503, 31639,
Theta Digital Thomson Toshiba	30571 30522 30503, 31639, 32277, 32901
Theta Digital Thomson Toshiba Transonic	30571 30522 30503, 31639, 32277, 32901 31394
Theta Digital Thomson Toshiba	30571 30522 30503, 31639, 32277, 32901

DVD	
United	30713, 31152, 33002
Universum	30713, 30869, 33003
Urban Concepts	30503
Venturer	32901
Vestel	30713
Victor	31597
Viore	33022
Vizio	33023
Vtrek	32587
Waltham	30713
Wellington	30713
Weltstar	30713
Wharfedale	30713
Windsor	30713
Windy Sam	30573
Xbox	30522, 33006
XLogic	31152
Yamaha	30490, 30539, 30646, 30817, 33011
Zenith	30503, 30869, 33003

DVD High Definition (Blu-Ray)		
Denon	33010	
Insignia	33002, 33014,	
	33025	
Integra	32900, 32910	
LG	33003	
Loewe	33018	
Magnavox	33002	
Marantz	33013, 33015	
NAD	33024	
Olevia	33012	
Onkyo	32900, 32910	
Орро	33021	
Panasonic	33005, 33020	
Philips	33007, 33016	
Pioneer	33000, 33017	
Samsung	33001	
Sharp	33009, 33019	
Sony	33004, 33008	
Sylvania	33002	
Viore	33022	
Vizio	33023	
Yamaha	33011	

<b>DVD High Definition (HD-DVD)</b>	
Integra	32901
LG	33003
Microsoft	33006
Onkyo	32901
RCA	32901
Toshiba	32901
Xbox	33006
	•

33002

30646

30490

DVD-R Accurian

Aristona

Denon

DVD-R	
Emerson	33002
Funai	33002
Go Video	33003
GPX	33003
Hitachi	31664
Humax	30646
JVC	31164, 31597
LG	33003
Loewe	33003
Magnavox	30646, 33002
Medion	33003
Panasonic	30490, 31579,
	33020
Philips	30646, 31340
Pioneer	30631
Pye	30646
RCA	30522
Samsung	30490, 31635
Sanyo	30670
Schneider	30646
Sharp	30630, 33002,
	33019
	31033, 31070,
Sony	31431, 33004,
- · ·	33008
Sylvania	33002
Targa	33003
Toshiba	31639, 32277
Victor	31597
Yamaha	30646
Zenith	33003

TV/DVD Combination	
Akai	11675
Black Diamond	11037, 30713
Blue Sky	11037, 30713
Bush	10698, 11037,
Dusii	30713
Centrum	11037, 30713
Crown	11037, 30713
DMTech	12001
Dual	11037, 30713
Dynex	12049
Elfunk	11037, 30713
Emerson	11394, 11864,
	33002
Ferguson	11037, 30713
Goodmans	11037, 30713
Grandin	30713
Grundig	30539
H&B	12001
Hanseatic	12001
Hitachi	11037, 30713
Insignia	12049
JVC	12271
LG	11423
Logik	11037, 30713
Luxor	11037, 30713
Matsui	11037, 30713
Nordmende	12001
Philips	10556, 11454,
	30539
Polaroid	11523

TV/DVD Combination		
Powerpoint	10698	
Prosonic	12001	
Pvision	12001	
RCA	12187	
Schaub Lorenz	12001	
SEG	11037, 30713	
Sharp	10818	
Sunstech	12001	
Sylvania	10171, 11394, 11864, 11886, 30630, 32194, 33002	
Teac	10698	
Technica	11037, 30713	
Telefunken	10698	
Teletech	11037, 30713	
Thomson	10625	
Toshiba	11524	
United	11037, 30713	
Universum	30713	
Vestel	11037	
Weltstar	11037, 30713	



## For Customers Using an RIHD-compatible TV, Player, or Recorder

This unit allows interoperability of the CEC (Consumer Electronics Control) specified in the HDMI standard, which is known as RIHD. Various linked operations can be performed by connecting this unit to an RIHD-compatible TV, player, or recorder. Initial setting is set to off, so it is required to change the setting to on.

For the details of connection, function and operation, refer to "Using an RIHD-compatible TV, Player, or Recorder" in the operating instructions, and perform the settings accordingly.

## Français

# Pour les utilisateurs d'un téléviseur, d'un lecteur ou d'un enregistreur compatible RIHD

Cet appareil autorise l'interopérabilité du CEC (Consumer Electronics Control) spécifié par la norme HDMI, connue sous le nom RIHD. De nombreuses opérations liées peuvent être réalisées en raccordant cet appareil à un téléviseur, un lecteur ou un enregistreur compatible RIHD.

Comme le réglage initial est désactivé, vous devez l'activer.

Pour la connexion, le fonctionnement et l'utilisation détaillés, consultez « Utilisation d'un téléviseur, d'un lecteur ou d'un enregistreur compatible RIHD » dans le mode d'emploi et procédez aux réglages appropriés.

### Español

# Para clientes que utilizan un televisor, reproductor o grabador compatible con RIHD

Esta unidad permite la interoperabilidad del CEC (Consumer Electronics Control, control de equipo electrónico) especificado en el estándar HDMI, conocido como RIHD. Es posible realizar varias operaciones combinadas conectando esta unidad a un televisor, reproductor o grabador compatible con RIHD.

El ajuste inicial está establecido en Off (apagado), de manera que es necesario cambiar el ajuste a On (encendido).

Consulte los detalles de conexión, función y operación, en "Uso de un televisor, reproductor o grabador compatible con RIHD" en las instruciones de operación, y realice los ajustes como corresponda.

## Italiano

# Per i clienti che utilizzano una TV, un lettore o un registratore compatibili con RIHD

Questa unità consente l'interoperabilità del CEC (Controllo Elettronica Consumatore) specificato nello standard HDMI, noto come RIHD. Collegando questa unità a una TV, lettore o registratore compatibili con RIHD, è possibile effettuare varie operazioni collegate.

L'impostazione iniziale è su off, ed è necessario metterla su on.

Per informazioni sul collegamento, funzionamento e utilizzo, far riferimento a "Uso di una TV, lettore o registratore compatibili con RIHD" nelle istruzioni d'uso, ed eseguire le impostazioni seguendo le istruzioni.

# Deutsch -

# Verwendung eines RIHD-kompatiblen Fernsehers, Players oder Recorders

Dieses Gerät ermöglicht eine Interoperabilität der CEC (Consumer Electronics Control/Steuerung Unterhaltungselektronik), die im HDMI-Standard spezifiziert wird, der als RIHD bekannt ist. Es können verschiedene verknüpfte Operationen ausgeführt werden, indem dieses Gerät an einen RIHD-kompatiblen Fernseher, Player oder Recorder angeschlossen wird.

Die ursprüngliche Einstellung steht auf "aus". Man muss also die Einstellungen auf "ein" stellen.

Einzelheiten zum Anschluss, Funktion und Betrieb finden Sie auf "Verwendung eines RIHD-kompatiblen Fernsehers, Players oder Recorders" in der Betriebsanleitung. Führen Sie die Einstellungen entsprechend aus.

### Nederland

# Voor klanten die een RIHD-compatibele TV, speler of recorder gebruiken

Deze unit laat interactiviteit toe van de CEC (Consumer Electronics Control) gespecificeerd in de HDMI-norm, die bekend staat als RIHD. Verschillende gekoppelde bedieningen kunnen worden uitgevoerd door deze unit aan te sluiten op een RIHD-compatibele TV, speler of recorder.

De oorspronkelijke configuratie staat op Af, zodat ze moet worden gewijzigd naar Aan.

Voor details over de aansluiting, functie en bediening, raadpleeg de "Een RIHD-compatibele TV, speler of recorder gebruiken" in de bedieningshandleiding, en voer de instellingen overeenkomstig uit.

### Svenska

### Gäller kunder med en en RIHD-kompatibel TV, spelare eller brännare

Denna enhet tillåter interoperabilitet med CEC (Consumer Electronics Control) som är specificerad i HDMI-standarden, som kallas RIHD. Olika länkade manövrar kan utföras genom att ansluta denna enhet till en RIHD-kompatibel TV, spelare eller brännare.

Initial inställning är av så den måste ändras till på.

För detaljerad information om anslutning, funktion och handhavande, se "Att använda en RIND-kompatibel TV, spelare eller brännare" i bruksanvisningarna och utför inställningarna därefter.

### Русский

## Информация для пользователей, использующих телевизоры, плееры и записывающие устройства с поддержкой RIHD

Данное устройство поддерживает СЕС (протокол дистанционного управления), указанный в стандарте HDMI, известный под названием RIHD. При подключении данного устройства к телевизору, плееру или записывающему устройству с поддержкой RIHD становятся доступны различные операции.

Первоначально данная функция отключена, поэтому ее необходимо будет включить.

Подробные сведения о подключении, функциях и работе см. в разделе "Использование телевизора, плеера или записывающего устройства с поддержкой RIHD" инструкций по эксплуатации, где также описана процедура настройки.

### 繁體中文

### 適用於使用 RIHD 相容電視、播放機或錄影機的客戶

此裝置提供與 HDMI 標準 (即 RIHD) 中指定 CEC (消費電子控制裝置) 的互操作性。 將此裝置連接到 RIHD 相容電視、播放機或錄影機,即能進行多項連接操作。

原始設置為關閉,因此必須將此設置更改為開啟。

如需連接、功能和操作的詳細信息,請參閱操作指示中的「使用 RIHD 相容電視、播放機或錄影機」,然後 依其中說明進行設置。

### 简体中文

### 适用于使用 RIHD 兼容电视、播放器或录制器的客户

此装置支持在 HDMI 标准中指定的 CEC ( 消费性电子控制) 互操作性, 称为 RIHD。 可通过连接此装置到 RIHD 兼容电视、播放器或录制器来执行各种连接操作。

初始设置为关闭,因此需要变更设置为开启。

连接、功能和操作的详细信息,请参考操作指南中的 "使用 RIHD 兼容电视、播放器或录制器" 并遵照指南 进行设置。

### 日本語

# RIHD と互換性のあるテレビやプレーヤー / レコーダーをご使用になる方へ

本機は、HDMI 規格で定められている CEC (Consumer Electronics Control) を使用した連動動作を 行うことができ、RIHD と呼んでいます。本機を RIHD と互換性のあるテレビやプレーヤー、レコーダー に接続してお使いになると、いろいろなリンク操作ができます。

初期設定はオフになっておりますので、オンに設定を変更する必要があります。

接続や動作、操作方法についての詳細は、取扱説明書「RIHD と互換性のあるテレビやプレーヤー / レ コーダーをご使用になるには」をご覧になり、設定をしてください。

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# **Product Registration** (USA and Canada)

# **Product Registration**

Thank you for purchasing this Onkyo product. In order to protect your investment and to receive information on new products and updates, please register. Please visit our web site for your online registration at:

www.us.onkyo.com/prodreg form.cfm (For USA customers) www.onkyo.ca/prodreg form.cfm (For Canadian customers)

# Online Customer Support

www.onkyousa.com can assist you anytime with Frequently Asked Questions, Hookup Diagrams, and Service Information. www.onkyo.ca is available for Canadian customer

### We offer Product Support 7 days per week

Onkyo has extended its product support hours to a seven-day schedule. For questions, assistance, or comments, please call us or visit on our website at:

Tel 1-800-229-1687

Web www.onkyousa.com/support (For USA customers) www.onkyo.ca/support (For Canadian customers)

## **Hours of Operation**

Mon - Fri 9:00am - 8:00pm (Eastern Time) Sat - Sun 10:00am - 4:00pm (Eastern Time)

### **Onkyo USA Corporation**

18 Park Way, Upper Saddle River, NJ 07458 Phone: 201-785-2600 Fax: 201-934-7823

# **Enregistrement du produit** (États Unis et Canada)

# **Enregistrement du produit**

Nous vous remercions d'avoir acheté ce produit Onkyo. Pour protéger votre investissement et pour recevoir de l'information sur nos nouveaux produits ainsi que des mises à jour, veuillez enregistrer votre produit. Pour ce faire, consultez notre site Web aux adresses suivantes :

www.us.onkyo.com/prodreg form.cfm (pour les clients des États Unis) www.onkyo.ca/prodreg form.cfm (pour les clients du Canada)

# Soutien à la clientèle en ligne

Vous pouvez obtenir de l'aide en tout temps sur le site www.onkyousa.com en consultant les sections Frequently Asked Questions, Hookup Diagrams et Service Information. Les clients canadiens peuvent quant à eux consulter le site www.onkyo.ca.

# Nous offrons un soutien technique 7 jours sur 7

Onkyo offre maintenant un soutien technique 7 jours sur 7. Pour obtenir de l'aide, des réponses à vos questions, ou pour soumettre vos commentaires, veuillez communiquer avec nous par téléphone ou consulter notre site Web:

Téléphone 1-800-229-1687

www.onkyousa.com/support (pour les clients des États Unis)

www.onkyo.ca/support (pour les clients du Canada)

### Heures d'ouverture

Lundi au vendredi de 9 h 00 à 20 h 00 (heure de l'Est) Samedi et dimanche de 10 h 00 à 16 h 00 (heure de l'Est)

### Onkyo USA Corporation

# **ONKYO USA Corporation Limited Warranty (USA)**

PLEASE RETAIN YOUR ORIGINAL BILL OF SALE AS YOU WILL NEED TO PRESENT IT SHOULD YOU REQUIRE SERVICE UNDER THIS WARRANTY. Onkyo USA Corporation (hereinafter referred to as Onkyo) hereby warrants all Onkyo products PURCHASED DIRECTLY FROM ONKYO OR AN ONKYO AUTHORIZED INDEPENDENT DEALER, in accordance with the following terms and conditions:

**Warranty Period** (from date of purchase):

To verify current model's warranty period, please visit

www.us.onkyo.com/warranty.cfm or call us 1-800-229-1687.

Receivers, and Amplifiers	2 years Parts & Labor
DVD Players, Tuners, Speakers	2 years Parts & Labor
CD Players, Cassette Decks, Personal Audio Systems	1 year Parts & Labor
Multimedia Products, Audio/Video Accessories	1 year Parts & Labor

# **Scope of Warranty**

From the date of original purchase and for the respective periods specified above, Onkyo agrees to repair, at its sole expense, all Onkyo products purchased directly from Onkyo or an Onkyo Authorized Independent Dealer, which are defective in material and/or workmanship.

### **EXCLUSIONS:**

IF YOU PURCHASE AN ONKYO PRODUCT FROM AN UNAUTHORIZED DEALER, YOUR ONKYO WARRANTY MAY NOT BE VALID, please use our authorized dealer locator.

### This Warranty does not cover the following:

- 1. Defects or damage caused by accident, fire, flood or other water damage, lightning or other acts of God.
- 2. Defects or damage caused by abuse, misuse, negligence or failure to observe the instructions contained in the manual furnished at the time of original purchase.
- 3. Damage caused during shipment or handling.
- 4. Products purchased from anyone other than Onkyo or an Onkyo Authorized Independent Dealer. If you are uncertain as to whether a dealer is authorized, please contact Onkyo's Customer Relations Department or check the Dealer and Service Locator.
- Products that have had their serial numbers altered or removed.
- Products purchased in "AS IS" condition.
- Products that have been altered or repaired by anyone other than Onkyo or an Onkyo authorized independent service station in a manner that has affected their performance, stability or reliability.
- Accessories attached to or to be used with Onkyo products, such as antennas, batteries, cables, or media such as CD's, DVD's, etc.
- Packing materials and cosmetic items.
- 10. Parts which have prescribed useful lives dependent upon the degree of their use, such as batteries, cassette heads, idler wheels, etc.
- 11. Installation and removal of Onkyo products.
- 12. Maintenance, cleaning or periodic check-ups.
- 13. Signal reception problems whether caused by external antennas, satellite, or cable systems or the physical location of the unit.
- 14. Damage caused by or to other equipment not properly connected to the unit.
- 15. Adjustments or alterations required for compatibility with conditions pertaining to foreign countries.
- 16. Products used continuously or for commercial applications. Onkyo products are intended for consumer use and are not designed for continuous or commercial use. In the event that the products concerned have been used commercially or continuously, the warranty period is limited to 90 days from the date of purchase.

### **Obtaining Warranty Service:**

To obtain warranty service, take or ship your Onkyo product to an Onkyo Authorized Independent Service Center, together with a note describing your complaint and your copy of the dated purchase receipt. Please also include in any mailing a contact name, address and telephone number. If you choose to ship your Onkyo product to an Onkyo Authorized Independent Service Center, all shipping arrangements must be made by you and all shipping charges and insurance must be fully prepaid. Any Onkyo product shipped in its entirety must be shipped in its original carton. Onkyo will pay all return shipping charges for Onkyo products that have been serviced under this warranty. Any service or repair for items not covered by this limited warranty shall be at the Authorized Independent Service Center's rates and terms then in effect. Contact an Onkyo Authorized Service Center for details.

### Limitations:

Onkyo makes this warranty subject to the following limitations:

- 1. This Warranty is valid only within the territory of the United States of America. To be covered by this warranty the Onkyo product concerned must have been purchased directly from Onkyo or an Onkyo Authorized Dealer in the United States and the person seeking warranty service must reside in one of the states of the United States of America or in the District of Columbia. This warranty extends only to the original purchaser and cannot be transferred to anyone.
- 2. ONKYO SHALL HAVE NO LIABILITY WHATSOEVER FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. THE RESPONSIBILITY OF ONKYO UNDER THIS WARRANTY SHALL BE LIMITED TO THE REPAIR OF DEFECTIVE ONKYO PRODUCTS BY ONKYO OR ITS AUTHORIZED INDEPENDENT SERVICE STATIONS.
- This warranty is valid only with respect to repairs affected by Onkyo or an Onkyo Authorized Independent Service Station.
- 4. ALL WARRANTIES AND CONDITIONS OTHER THAN THE EXPRESS WARRANTY HEREIN CONTAINED INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow limitations on how long an implied warranty or condition lasts and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

# **ONKYO USA Corporation Limited Warranty** (Canada)

PLEASE RETAIN YOUR ORIGINAL BILL OF SALE AS YOU WILL NEED TO PRESENT IT SHOULD YOU REQUIRE SERVICE UNDER THIS WARRANTY. Onkyo USA Corporation (hereinafter referred to as Onkyo) hereby warrants all Onkyo products **PURCHASED DIRECTLY FROM ONKYO OR AN ONKYO AUTHORIZED INDEPENDENT DEALER**, in accordance with the following terms and conditions:

Warranty Period (from date of purchase):

To verify current model's warranty period, please visit

www.onkyo.ca/warranty.cfm or call us 1-800-229-1687.

Receivers, and Amplifiers	2 years Parts & Labor
DVD Players, Tuners, Speakers	2 years Parts & Labor
CD Players, Cassette Decks, Personal Audio Systems	1 year Parts & Labor
Multimedia Products, Audio/Video Accessories	1 year Parts & Labor

# **Scope of Warranty**

From the date of original purchase and for the respective periods specified above, Onkyo agrees to repair, at its sole expense, all Onkyo products purchased directly from Onkyo or an Onkyo Authorized Independent Dealer, which are defective in material and/or workmanship.

#### **EXCLUSIONS:**

IF YOU PURCHASE AN ONKYO PRODUCT FROM AN UNAUTHORIZED DEALER, YOUR ONKYO WARRANTY MAY NOT BE VALID, please use our authorized dealer locator.

### This Warranty does not cover the following:

- 1. Defects or damage caused by accident, fire, flood or other water damage, lightning or other acts of God.
- 2. Defects or damage caused by abuse, misuse, negligence or failure to observe the instructions contained in the manual furnished at the time of original purchase.
- 3. Damage caused during shipment or handling.
- 4. Products purchased from anyone other than Onkyo or an Onkyo Authorized Independent Dealer. If you are uncertain as to whether a dealer is authorized, please contact Onkyo's Customer Relations Department or check the Dealer and Service Locator.
- 5. Products that have had their serial numbers altered or removed.
- 6. Products purchased in "AS IS" condition.
- 7. Products that have been altered or repaired by anyone other than Onkyo or an Onkyo authorized independent service station in a manner that has affected their performance, stability or reliability.
- 8. Accessories attached to or to be used with Onkyo products, such as antennas, batteries, cables, etc.
- 9. Packing materials and cosmetic items.
- 10. Parts which have prescribed useful lives dependent upon the degree of their use, such as batteries, cassette heads, idler wheels, etc.
- 11. Installation and removal of Onkyo products.
- 12. Maintenance, cleaning or periodic check-ups.
- 13. Adjustments or alterations required for compatibility with conditions pertaining to foreign countries.
- 14. Products used continuously or for commercial applications. Onkyo products are intended for consumer use and are not designed for continuous or commercial use. In the event that the products concerned have been used commercially or continuously, the warranty period is limited to 90 days from the date of purchase.

### **Obtaining Warranty Service:**

To obtain warranty service, take or ship your Onkyo product to an Onkyo Authorized Independent Service Center in Canada, together with a note describing your complaint and your copy of the dated purchase receipt. Please also include in any mailing a contact name, address and telephone number. If you choose to ship your Onkyo product to an Onkyo Authorized Independent Service Center, all shipping arrangements must be made by you and all shipping charges and insurance must be fully prepaid. Any Onkyo product shipped in its entirety must be shipped in its original carton. Onkyo will pay all return shipping charges for Onkyo products that have been serviced under this warranty.

Any service or repair for items not covered by this limited warranty shall be at the Authorized Independent Service Center's rates and terms then in effect. Contact an Onkyo Authorized Service Center for details.

#### **Limitations:**

Onkyo makes this warranty subject to the following limitations:

- 1. This Warranty is valid only within Canada. To be covered by this warranty the Onkyo product concerned must have been purchased directly from Onkyo or an Onkyo Authorized Dealer in Canada and the person seeking warranty service must reside in Canada. This warranty extends only to the original purchaser and cannot be transferred to anyone.
- 2. ONKYO SHALL HAVE NO LIABILITY WHATSOEVER FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. THE RESPONSIBILITY OF ONKYO UNDER THIS WARRANTY SHALL BE LIMITED TO THE REPAIR OF DEFECTIVE ONKYO PRODUCTS BY ONKYO OR ITS AUTHORIZED INDEPENDENT SERVICE STATIONS.
- 3. This warranty is valid only with respect to repairs affected by Onkyo or an Onkyo authorized independent service station.
- 4. ALL WARRANTIES AND CONDITIONS OTHER THAN THE EXPRESS WARRANTY HEREIN CONTAINED INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.

Some jurisdictions do not allow limitations on how long an implied warranty or condition lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights that vary from province to province.

# Garantie limitée de ONKYO USA Corporation (Canada)

VEUILLEZ CONSERVER VOTRE FACTURE ORIGINALE PUISQUE VOUS DEVREZ LA PRÉSENTER POUR VOUS PRÉVALOIR DU SERVICE AUX TERMES DE LA PRÉSENTE GARANTIE. Onkyo USA Corporation (ci après Onkyo) garantit par les présentes tous les produits Onkyo ACHETÉS DIRECTEMENT AUPRÈS DE ONKYO OU D'UN MARCHAND INDÉPENDANT AUTORISÉ DE ONKYO, conformément aux modalités suivantes :

Durée de la garantie (à compter de la date d'achat):

Pour vérifier la durée de la garantie de votre modèle, veuillez consulter le site **www.onkyo.ca/warranty.cfm** ou communiquer avec nous par téléphone au **1-800-229-1687**.

Récepteurs et amplificateurs	2 ans pièces et main-d'œuvre
Lecteurs DVD, syntoniseurs et haut-parleurs	2 ans pièces et main-d'œuvre
Lecteurs CD, platines à cassettes et systèmes audio personnels	1 an pièces et main-d'œuvre
Produits multimédias et accessoires audio et vidéo	1 an pièces et main-d'œuvre

# Portée de la garantie

À compter de la date de l'achat initial et durant les périodes précisées ci dessus, Onkyo accepte de réparer, à ses frais, tous les produits Onkyo défectueux ou qui présentent des vices de fabrication achetés directement auprès d'elle ou auprès d'un marchand indépendant autorisé de Onkyo.

#### **EXCLUSIONS:**

SI VOUS ACHETEZ UN PRODUIT ONKYO AUPRÈS D'UN MARCHAND NON AUTORISÉ, LA GARANTIE ONKYO POURRAIT NE PAS ÊTRE VALIDE. Veuillez consulter la liste de nos marchands autorisés.

### La présente garantie ne couvre pas les éléments suivants

- 1. Les défectuosités ou les dommages causés par un accident, un incendie, une inondation ou autre infiltration d'eau, un orage ou toute autre catastrophe naturelle.
- 2. Les défectuosités ou les dommages causés par un usage abusif, une mauvaise utilisation, une négligence ou le défaut de suivre les instructions du manuel fourni au moment de l'achat initial.
- 3. Les dommages causés au cours de la livraison ou la manutention.
- 4. Les produits achetés auprès d'une personne autre que Onkyo ou qu'un marchand indépendant autorisé de Onkyo. Si vous ignorez si un marchand est autorisé, veuillez communiquer avec le service à la clientèle de Onkyo ou consulter la liste des marchands et fournisseurs de services autorisés.
- 5. Les produits dont le numéro de série a été modifié ou effacé.
- 6. Les produits achetés « tel quel ».
- 7. Les produits qui ont été modifiés ou réparés par une personne autre que Onkyo ou qu'un fournisseur de services indépendant autorisé de Onkyo de façon à affecter leur rendement, leur durabilité ou leur fiabilité.
- 8. Les accessoires attachés aux produits Onkyo ou devant être utilisés avec ceux ci, comme les antennes, les batteries, les câbles, etc.
- 9. Les matériaux d'emballage et les éléments de présentation.
- 10. Les pièces qui ont une durée de vie utile prescrite en fonction de leur utilisation, comme les batteries, les têtes de lecture, les engrenages, etc.
- 11. L'installation et le démontage des produits Onkyo.
- 12. L'entretien, le nettoyage ou les mises au point périodiques.
- 13. Les ajustements ou les modifications nécessaires pour assurer la conformité aux normes de pays étrangers.
- 14. Les produits utilisés sans interruption ou à des fins commerciales. Les produits Onkyo sont destinés aux consommateurs et ils ne sont pas conçus pour un usage ininterrompu ou commercial. Si les produits en cause ont été utilisés à des fins commerciales ou sans interruption, la durée de la garantie est limitée à 90 jours à compter de la date de l'achat.

#### **Exécution de la garantie:**

Pour faire exécuter la garantie, veuillez remettre ou poster votre produit Onkyo à un centre de service indépendant autorisé de Onkyo au Canada, avec une note décrivant le problème et votre reçu d'achat daté. Pour tout envoi postal, veuillez également fournir le nom de la personne à contacter, son adresse et son numéro de téléphone. Si vous choisissez d'expédier votre produit Onkyo à un centre de services indépendant autorisé de Onkyo, vous devez prendre les dispositions nécessaires pour assurer la livraison et régler d'avance l'ensemble des frais et des assurances liés à la livraison. Tout produit Onkyo complet doit être expédié dans son emballage d'origine. Onkyo remboursera les frais d'expédition de retour pour les produits Onkyo sous garantie. Les services fournis ou les réparations effectuées à l'égard d'articles qui ne sont pas couverts par la présente garantie limitée seront effectués selon les tarifs et les modalités en vigueur du centre de services indépendant autorisé. Pour obtenir plus de détails, communiquez avec un centre de services autorisés de Onkyo.

### Limitations de la garantie:

La présente garantie de Onkyo est assujettie aux limitations suivantes :

- 1. La présente garantie n'est valide qu'au Canada. Pour être couvert par la présente garantie, le produit Onkyo en cause doit être acheté directement auprès de Onkyo ou d'un marchand autorisé Onkyo au Canada et la personne qui désire se prévaloir de la garantie doit être un résident du Canada. La présente garantie ne vise que l'acheteur d'origine et elle ne peut être cédée à une autre personne.
- 2. ONKYO N'ASSUME AUCUNE RESPONSABILITÉ EN CAS DE DOMMAGES CONSÉCUTIFS OU INDIRECTS. LA RESPONSABILITÉ DE ONKYO AUX TERMES DE LA PRÉSENTE GARANTIE SE LIMITE À LA RÉPARATION DES PRODUITS ONKYO DÉFECTUEUX PAR ONKYO OU PAR SES CENTRES DE SERVICE INDÉPENDANTS AUTORISÉS.
- 3. La présente garantie n'est valide qu'à l'égard des réparations effectuées par Onkyo ou par un centre de services indépendant autorisé de Onkyo.
- 4. À L'EXCEPTION DES GARANTIES EXPRESSÉMENT CITÉES AUX PRÉSENTES, Y COMPRIS TOUTE GARANTIE IMPLICITE DE QUALITÉ MARCHANDE OU D'APTITUDE À UN USAGE PARTICULIER, TOUTES LES GARANTIES ET LES MODALITÉS SONT D'UNE DURÉE LIMITÉE CONFORMÉMENT À LA DURÉE DE LA GARANTIE APPLICABLE SUSMENTIONNÉE.

Certains territoires n'autorisent aucune restriction sur les garanties implicites ni l'exclusion ou la limitation des dommages consécutifs ou indirects de sorte que les limitations ou les exclusions susmentionnées pourraient ne pas s'appliquer dans votre cas. La présente garantie vous donne des droits légaux précis et vos droits pourraient varier selon les provinces.